

## **Canon projector SX7/SX60/X700 User Commands**

**2007.08.29**

## I. Version revision history

Numerical value	Date	Description of revised version	Where revised
	2007.08.29	Version first created.	

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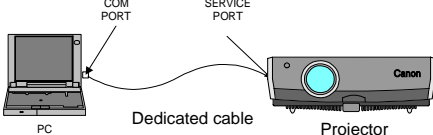
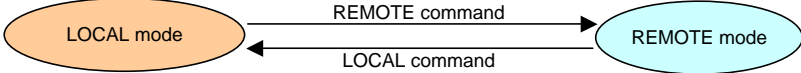
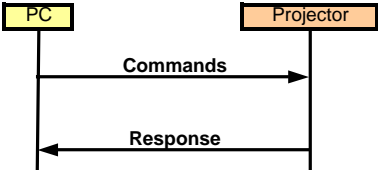
[illegible]

## 1. Overview

- These specifications describe the methods of controlling the projector from the PC over an RS-232C connection
- Virtually all operations possible with the remote control can be controlled from the PC
- The following symbols are used in these specifications.

Symbol	Description
	Space with 0 or more characters (20h), Tab (09h), or other separator
	Space with 1 or more characters (20h), Tab (09h), or other separator
	Separator between parameters
[ ]	The data in [ ] can be omitted.
	Same as OR
: =	The definition name is on the left side of this mark, and the definition description is on the right side.

## 2. Communication Specifications

Communication system	<table border="1"> <thead> <tr> <th>Item</th><th>Specifications</th></tr> </thead> <tbody> <tr> <td>Communication system</td><td>RS-232-C, Start-stop synchronization, Semi-duplex communication</td></tr> <tr> <td>Transmission speed</td><td>19.2 Kbps</td></tr> <tr> <td>Character length</td><td>8 bits/character</td></tr> <tr> <td>Stop bit</td><td>2 bits</td></tr> <tr> <td>Parity</td><td>None</td></tr> <tr> <td>Transmission format</td><td>Variable-length record with terminal as delimiter</td></tr> <tr> <td>Maximum transmission length</td><td>Maximum of 256 characters (bytes) including delimiters</td></tr> <tr> <td>Delimiters</td><td>Delimiters are one of CR, LF, CR+LF, Null (0) (Delimiters are identified automatically.) Response delimiters are identical to command delimiters.</td></tr> <tr> <td>Transmission codes</td><td>ASCII code (General-purpose characters: 20h to 7Fh), Tab (09h) (Codes other than those above and delimiters are considered "other separator codes") Uppercase and lowercase of alphabetic characters are considered the same character. Double-byte characters and single-byte characters are not distinguished. All are considered <u>single-byte characters</u>.</td></tr> <tr> <td>Communication procedure</td><td>No procedure</td></tr> <tr> <td>Flow control</td><td>None</td></tr> <tr> <td>Error control</td><td>None</td></tr> <tr> <td>Break signal</td><td>Not supported</td></tr> <tr> <td>Time out</td><td>Tc Character interval : 10ms * For the SX50 : 5S (Timeout between CR and LF is 10ms.) * For the SX6, SX60, X600, SX7 or X Tr Command/response interval: 10S</td></tr> </tbody> </table>	Item	Specifications	Communication system	RS-232-C, Start-stop synchronization, Semi-duplex communication	Transmission speed	19.2 Kbps	Character length	8 bits/character	Stop bit	2 bits	Parity	None	Transmission format	Variable-length record with terminal as delimiter	Maximum transmission length	Maximum of 256 characters (bytes) including delimiters	Delimiters	Delimiters are one of CR, LF, CR+LF, Null (0) (Delimiters are identified automatically.) Response delimiters are identical to command delimiters.	Transmission codes	ASCII code (General-purpose characters: 20h to 7Fh), Tab (09h) (Codes other than those above and delimiters are considered "other separator codes") Uppercase and lowercase of alphabetic characters are considered the same character. Double-byte characters and single-byte characters are not distinguished. All are considered <u>single-byte characters</u> .	Communication procedure	No procedure	Flow control	None	Error control	None	Break signal	Not supported	Time out	Tc Character interval : 10ms * For the SX50 : 5S (Timeout between CR and LF is 10ms.) * For the SX6, SX60, X600, SX7 or X Tr Command/response interval: 10S
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Connection Specifications	<p>PC - Projector connection status</p>  <table border="1"> <thead> <tr> <th>Item</th><th>Specifications</th></tr> </thead> <tbody> <tr> <td>Connection system</td><td>PC: Connected on a "1:1" basis with the projector</td></tr> <tr> <td>Connection signal line</td><td>3-line connection of SD, RD, and SG</td></tr> <tr> <td>Connection cable</td><td>Dedicated cable The connection diagram is here.</td></tr> </tbody> </table> <p>Send data <b>SD</b> Send data Receive data <b>RD</b> Receive data Signal ground <b>SG</b> Signal ground</p> <p>In the projector, none of the signal lines except for the three lines of SD, RD and SG are used! If necessary, loop back its own signals at the PC side.</p>	Item	Specifications	Connection system	PC: Connected on a "1:1" basis with the projector	Connection signal line	3-line connection of SD, RD, and SG	Connection cable	Dedicated cable The connection diagram is here.																						
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Control Mode	<p>The projector has two control modes, the <b>local mode</b> and <b>remote mode</b>. Most user commands are used in <b>REMOTE mode</b>. The two modes are set by the REMOTE and LOCAL commands.</p>  <ul style="list-style-type: none"> <li>Initial mode of projector</li> <li>The available user commands are limited.</li> <li>Except for RC and MAIN, all user commands are available in this mode.</li> <li>None of the remote control and main unit panel buttons except for POWER can be used.</li> <li>Control is switched to this mode by the REMOTE command.</li> </ul>																														
Communication system	<p>Communication between the PC and projector is performed by the projector responding by <b>sending a response</b> to the <b>command sent</b> from the PC. If AC power is supplied to the projector, communication is possible regardless of whether the power is on or off.</p> 																														

Commands

Request transmissions sent from PC to the projector

Transmission format

<Command character strings> <Delimiters>

<Command character strings>	Character strings consisting of 0 or more alphanumeric characters	Reference	Command List
<Delimiters>	One of CR (0Dh), LF (0Ah), CR+LF (0Dh+0Ah), Null (00h)		

Type Null

Control

Setting

Reference

Type	Description	Response
Null Commands Character string	Commands with a command character string length of 0. No command processing is performed.  <u>&lt;Null command character string&gt;:= &lt;Character string with length 0&gt;</u>	OK
		BUSY
		WARN
		ERR
		GET
		RANGE
Control command Character string	Projector control command. The format is shown below.  <u>&lt;Control command character string&gt;:= &lt;Control name&gt;</u> <u>&lt;Parameter value&gt;</u>	OK
		BUSY
		WARN
		ERR
		GET
		RANGE
Setting command Character string	Command that sets values for each parameter. The format is shown below.  <u>&lt;Setting command character strings&gt;:= &lt;Parameter name&gt; =</u> <u>&lt;Parameter value&gt;</u> For the definition of <Parameter value>, refer to "Parameter definitions."	OK
		BUSY
		WARN
		ERR
		GET
		RANGE
Reference command Character string	Requests current value of each parameter. The format is shown below.  <u>&lt;Reference command character string&gt;:=? &lt;Parameter name&gt;  </u> <u>GET &lt;Parameter name&gt;</u>	OK
		BUSY
		WARN
		ERR
		GET
		RANGE
	Requests range which can be set for each parameter. The format is shown below.  <u>&lt;Range request command character string&gt;:= RANGE</u> <u>&lt;Parameter name&gt;</u>	OK
		BUSY
		WARN
		ERR
		GET
		RANGE



Response

Transmissions sent from Projector to PC in response to commands from PC

Transmission format

<Response character string> <Delimiter>

<Response character string>

Character strings consisting of one or more ASCII characters.  
The first two characters are always <one lowercase letter>:  
The first character indicates the response type.

Response type	Meaning	Example
i	State response	i:OK i:BUSY etc.
w	Warning	w:USER_COMMAND..
e	Error	e:000B INVALID..
g	Reference command response	g:AVOL=10
r	Range request command response	r:VKS=N, -50, 50

<Delimiters>

Delimiters for commands sent from PC

Type

OK

BUSY

WARN

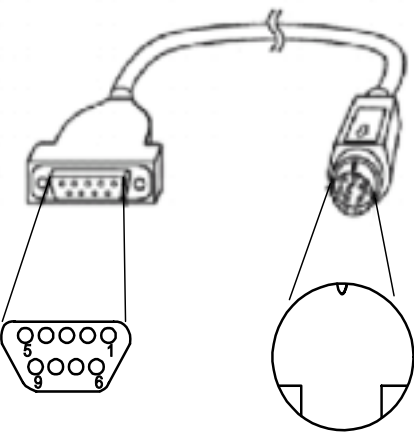
ERR

GET

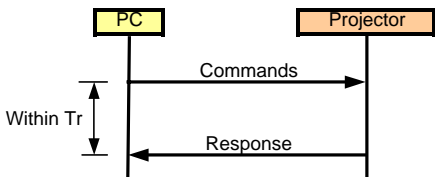
RANGE

Type	Description
OK response	After processing of each command is completed, a response is sent indicating that the next command can be received. <b>&lt;OK response character string&gt;:=i:OK</b>
BUSY response	This response is sent when a command cannot be received during processing. Wait for a few moments, and then try sending the command again.  <b>&lt;BUSY response character string&gt;:=i:BUSY</b>  Example:   > IMAGE=2 < i:BUSY
WARN response	This response is sent when warning information is issued. <b>Note that this command cannot be executed.</b> <b>&lt;Warning response character string&gt;:= w:&lt;Warning description&gt;</b>  Example:   > IMAGE=2 < w:USER_COMMAND_VERSION_IS_UPDATED
ERR response	An error message is output.  <b>&lt;Error response character string&gt;:= e:&lt;Error code&gt; &lt;Error message&gt;</b> <Error code> is expressed as a four-digit hexadecimal number. Refer to "Error List"!  Example:   > abcdefg < e:0002 INVALID_COMMAND
GET response	Request response for each parameter.  <b>&lt;GET response character string&gt;:=g&lt;Parameter name&gt;=&lt;Value&gt;</b>  Example:   > GET LANG or ? LANG < g:LANG=JPN
RANGE response	This is the settable range response for each parameter.  <b>&lt;Range response character string&gt; := r:&lt;Parameter name&gt;=&lt;Type&gt;, &lt;Setting value range&gt;</b>  <For <Setting value range> refer to the RANGE command.  Example:   > RANGE CONT < r:CONT=N, -20, 20

<div>Other</div> <div>Transmission recognition</div> <div>Parameter value Definition</div>	<div>Transmission is recognized when delimiter is received.</div> <div>Even if a maximum transmission length is received, the entire received transmission will be lost unless a delimiter is received.</div> <div>The &lt;Parameter value&gt; is defined as shown below.</div> <div> <div>&lt;Parameter value&gt;:=&lt;Value 1&gt; &lt;Value 2&gt; .. &lt;Value n&gt;</div> <div>&lt;Value&gt; := &lt;Numerical value&gt;   &lt;ID&gt;   "&lt;Character string&gt;"</div> <div> <div>&lt;Numerical value&gt; := [&lt;Sign&gt;] &lt;Decimal character string (Min. 1 character to Max. 5 characters)&gt;</div> <div>The range of valid values is -32768 to 32767.</div> <div>&lt;ID&gt; := 1 or more ASCII characters (20h to 7Fh)</div> <div>&lt;Character string&gt; := 0 or more ASCII characters (20h to 7Fh)</div> </div> </div>
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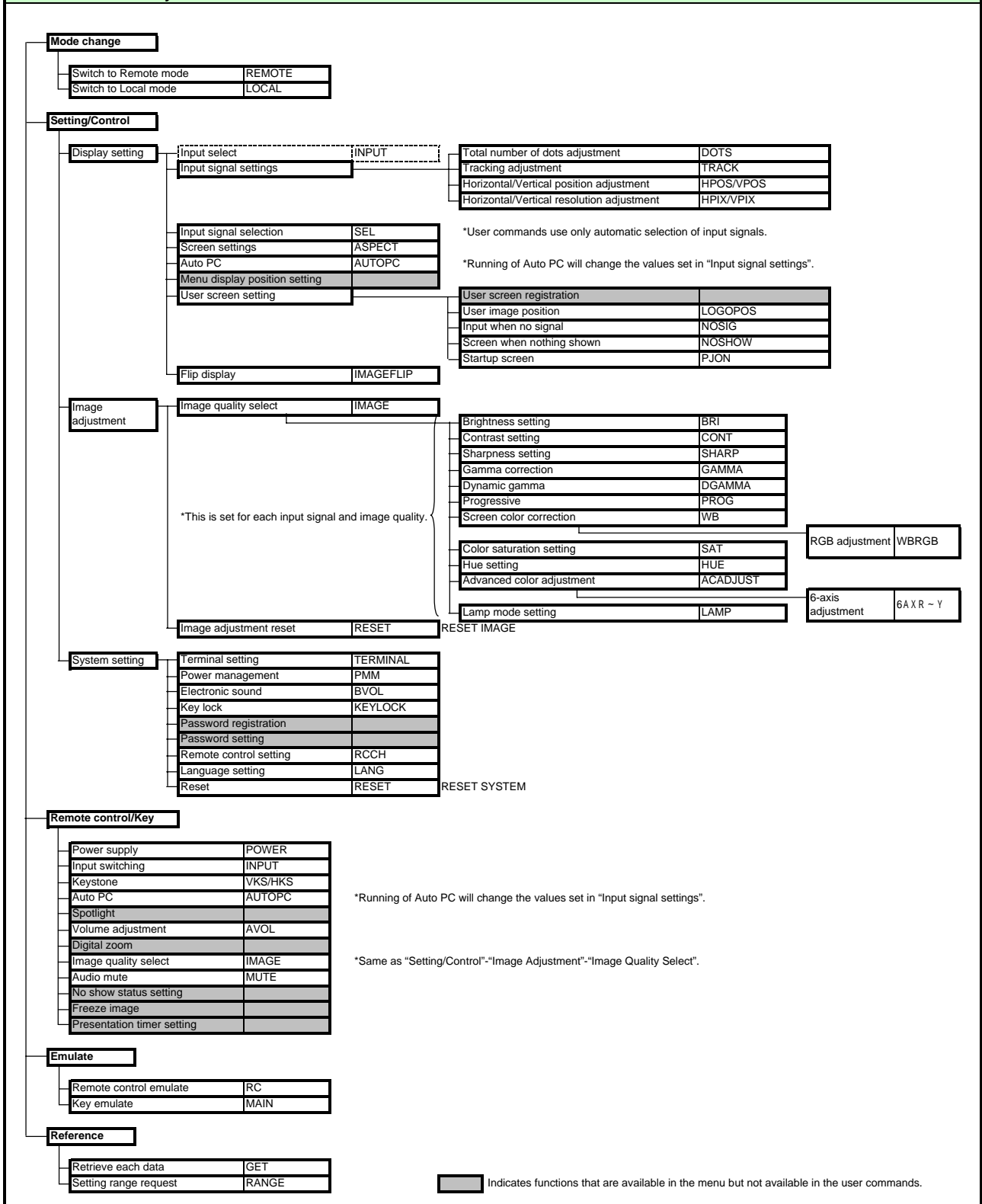
<div>Cable</div>	<div>The connection diagram (example) for the cable connecting the PC and projector is shown below.</div> <div> <div>  <div>PC</div> <div>D-SUB 9pin FEMALE</div> <div>PJ</div> <div>MINI DIN 8pin MALE</div> </div> <div> <div>Sample 2</div> <div> <div>PC</div> <div> <div>SHIELD</div> <div>1 CD (DCD)</div> <div>2 RD (RXD)</div> <div>3 SD (TXD)</div> <div>4 ER (DTR)</div> <div>5 SG (GND)</div> <div>6 DR (DSR)</div> <div>7 RS (RTS)</div> <div>8 CS (CTS)</div> <div>9 CI (RI)</div> </div> <div> <div>PJ</div> <div> <div>SHIELD</div> <div>3 SD (TXD)</div> <div>5 RD (RXD)</div> <div>4 SG (GND)</div> </div> </div> </div> <div>Example of self-loopback connections when the "CS" and "DR" pins are used in the connector of the PC.</div> </div> <div> <div>Sample 1</div> <div> <div>PC</div> <div> <div>SHIELD</div> <div>1 CD (DCD)</div> <div>2 RD (RXD)</div> <div>3 SD (TXD)</div> <div>4 ER (DTR)</div> <div>5 SG (GND)</div> <div>6 DR (DSR)</div> <div>7 RS (RTS)</div> <div>8 CS (CTS)</div> <div>9 CI (RI)</div> </div> <div> <div>PJ</div> <div> <div>SHIELD</div> <div>3 SD (TXD)</div> <div>5 RD (RXD)</div> <div>4 SG (GND)</div> <div>2 NC</div> <div>1 RS(RTS)</div> <div>6 NC</div> <div>7 NC</div> <div>8 NC</div> </div> </div> <div>Canon's standard cable is used for these connections.</div> <div>Do not use the "RS" pin in the connector of the PC!</div> </div> <div> <div>Sample 3</div> <div> <div>PC</div> <div> <div>SHIELD</div> <div>1 CD (DCD)</div> <div>2 RD (RXD)</div> <div>3 SD (TXD)</div> <div>4 ER (DTR)</div> <div>5 SG (GND)</div> <div>6 DR (DSR)</div> <div>7 RS (RTS)</div> <div>8 CS (CTS)</div> <div>9 CI (RI)</div> </div> <div> <div>PJ</div> <div> <div>SHIELD</div> <div>3 SD (TXD)</div> <div>5 RD (RXD)</div> <div>4 SG (GND)</div> </div> </div> <div>Example of minimally required connections.</div> </div> </div> </div></div>
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### 3. Communication Flow

Transmission sent	At the sending side (PC), the transmission is sent within character intervals of $T_c$ (character interval timeout).
Transmission received	At the receiving side (Projector), data able to be received within the character interval of $T_c$ is held, and receiving of a delimiter is considered "transmission received". If a received character interval exceeds $T_c$ or a delimiter is not received within 256 characters, all data already received is lost, and the mode is reset to receive standby again.
Command/Response	<p>One response is always returned for each command sent from the PC. (However, note that a response may not be returned when the internal receive buffer overflows due to reception of a large amount of data.)</p>  <pre> sequenceDiagram     participant PC     participant Projector     PC-&gt;&gt;Projector: Commands     Projector--&gt;&gt;PC: Response     Note over PC: Within Tr   </pre> <p>*The timeout interval between command and response (<math>T_r</math>) is 10 seconds.</p>
Response reception timeout	If a response is not received within $T_r$ (timeout interval between command and response) while in response reception standby after sending a command at the PC, resend the command in the "response reception timeout".

## 4. Command System

## SX50. User Command System



## SX7, SX60 or X700 User Command System

## Mode change

Switch to Remote mode	REMOTE
Switch to Local mode	LOCAL

## Setting/Control

## Display setting

Input select	INPUT	Total number of dots adjustment	DOTS
Input signal settings		Tracking adjustment	TRACK
		Horizontal/Vertical position adjustment	HPOS/VPOS
		Horizontal/Vertical resolution adjustment	HPIX/VPIX

Input signal selection	SEL
Screen settings	ASPECT
Auto PC	AUTOPC
Menu display position setting	
Screen color correction	WB

\*User commands use only automatic selection of input signals.

\*Running of Auto PC will change the values set in "Input signal settings".

Progressive	PROG
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RGB adjustment	WBRGB
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## User screen setting

User screen registration	
User image position	LOGOPOS
Screen when no signal	NOSIG
Screen when nothing shown	NOSHOW
Startup screen	PJON

Flip display	IMAGEFLIP
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## Image adjustment

## Image quality select IMAGE

Brightness setting	BRI
Contrast setting	CONT
Sharpness setting	SHARP
Gamma correction	GAMMA
Color adjustment	

\*This is set for each input signal and image quality.

Color saturation setting	SAT
Hue setting	HUE
Gain adjustment	RGBGAIN
Offset adjustment	RGBOFFSET

## Advanced adjustment

Dynamic gamma	DGAMMA
Memory color correction	MEMCADJ
6-axis color adjustment	6AXADJ
6-axis adjustment	6AXR ~ Y

Image adjustment reset	RESET
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RESET IMAGE

Lamp mode setting	LAMP
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## System setting

Auto setup	
Power management mode	PMM
Direct power-on	DPON
Electronic sound	BVOL
Key lock	KEYLOCK
Language setting	LANG
Guide	GUIDE
LED illumination	LEDILLUMINATE
Other settings	

Remote control setting	RCCH
Password setting	
Password registration	
Lamp counter reset	RESET
Factory settings	RESET

RESET LAMPTIME  
RESET SYSTEM

## Remote control/Key

Power supply	POWER
Auto set	AUTOSETEXE
Image quality select	IMAGE
Input switching	INPUT
Auto PC	AUTOPC
Focus	FCONTPDRV
	FSETPDRV
Zoom	ZCONTPDRV
	ZSETPDRV
Keystone	VKS/HKS
Digital zoom	
Spotlight	
No show status setting	BLANK
Audio mute	MUTE
Volume adjustment	AVOL
Freeze image	
Presentation timer setting	

\*Same as "Setting/Control"->"Image Adjustment"->"Image Quality Select".

\*Running of Auto PC will change the values set in "Input signal settings".

## Emulate

Remote control emulate	RC
Key emulate	MAIN

## Reference

Retrieve each data	GET
Setting range request	RANGE

Indicates functions that are available in the menu but not available in the user commands.

## 5. Control Mode

The table below shows the states and limitations of the LOCAL and REMOTE control modes.

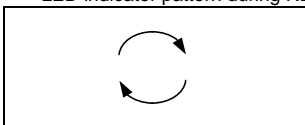
Mode		LOCAL mode	REMOTE mode																																														
Item																																																	
Description		Mode where projector control/operation is performed by the main unit or remote control. Initial mode when microcomputer is started.	Mode where projector control/operation is performed by a PC or other external device. (The PC or other external device is connected by a serial cable.)																																														
LED	Status	State indicator	Constant remote indicator 2																																														
	ALM	ALM state indicator	ALM state indicator																																														
Transition method		· AC power supply to projector · Manual power on/off · LOCAL command · Power management standby/exit mode transfer	· REMOTE command																																														
Operation buttons	Main unit keys	All available	Only POWER button is available																																														
	Remote control keys	All available	Only POWER button is available																																														
	Emulation	Available 1	Not available																																														
Power management standby and exit modes  3	Switching	5 minutes elapsed from no signal	Operation is as follows depending on the model. <table border="1"><thead><tr><th>Model</th><th>Operation</th></tr></thead><tbody><tr><td>SX50</td><td>· No switching to standby or exit mode.</td></tr><tr><td>SX6 SX60 X600 SX7 X700</td><td>· 5 minutes elapsed from no signal · Control is switched to "local mode" after mode switching.</td></tr></tbody></table>	Model	Operation	SX50	· No switching to standby or exit mode.	SX6 SX60 X600 SX7 X700	· 5 minutes elapsed from no signal · Control is switched to "local mode" after mode switching.																																								
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SX6 SX60 X600 SX7 X700	· 5 minutes elapsed from no signal · Control is switched to "local mode" after mode switching.																																																
Return	· Signal input · Remote control button pressed · Main unit button pressed · Emulation	· REMOTE command																																															
Commands supported		<div>For the SX50</div> <table border="1"><thead><tr><th>Command/parameter</th><th>Remarks</th></tr></thead><tbody><tr><td>REMOTE</td><td></td></tr><tr><td>LOCAL</td><td></td></tr><tr><td>GET MODE</td><td></td></tr><tr><td>MAIN</td><td></td></tr><tr><td>RC</td><td></td></tr></tbody></table> <div>For the SX6, SX60, X600, SX7 or X700</div> <table border="1"><thead><tr><th>Command/parameter</th><th>Remarks</th></tr></thead><tbody><tr><td>GET COMVER</td><td></td></tr><tr><td>GET ERROR</td><td></td></tr><tr><td>GET FREEZE</td><td></td></tr><tr><td>GET INPUT</td><td></td></tr><tr><td>GET LAMPCOUNTER</td><td></td></tr><tr><td>GET MODE</td><td></td></tr><tr><td>GET MUTE</td><td></td></tr><tr><td>GET NOSHOWSTATUS</td><td></td></tr><tr><td>GET POWER</td><td></td></tr><tr><td>GET PRODCODE</td><td></td></tr><tr><td>GET ROMVER</td><td></td></tr><tr><td>GET SIGNALSTATUS</td><td></td></tr><tr><td>LOCAL</td><td></td></tr><tr><td>MAIN</td><td></td></tr><tr><td>RC</td><td></td></tr><tr><td>REMOTE</td><td></td></tr></tbody></table>	Command/parameter	Remarks	REMOTE		LOCAL		GET MODE		MAIN		RC		Command/parameter	Remarks	GET COMVER		GET ERROR		GET FREEZE		GET INPUT		GET LAMPCOUNTER		GET MODE		GET MUTE		GET NOSHOWSTATUS		GET POWER		GET PRODCODE		GET ROMVER		GET SIGNALSTATUS		LOCAL		MAIN		RC		REMOTE		All commands except for "RC" and "MAIN"
Command/parameter	Remarks																																																
REMOTE																																																	
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GET ROMVER																																																	
GET SIGNALSTATUS																																																	
LOCAL																																																	
MAIN																																																	
RC																																																	
REMOTE																																																	
Special mode (Service mode)		Executable with remote control or main unit buttons	Not executable in any state																																														

\*1 However, switching to the USB mouse function or Special mode is not allowed.

\*2 If the control mode is REMOTE, the following are displayed regardless of whether the power is on or off.

\*3 When the power management setting is "standby" or "exit"

LED indicator pattern during REMOTE mode



## 6. Key/Emulation function

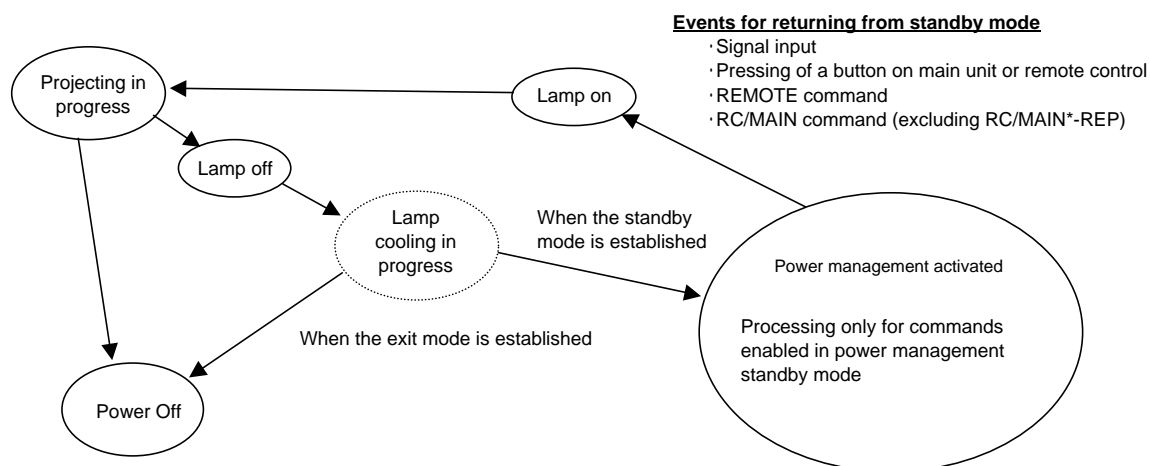
The table below shows how the main unit/remote control keys and emulation function operate in each control mode

Key/Emulation	LOCAL mode			REMOTE mode		
	Unlock	Remote control lock	Main unit key lock	Unlock	Remote control lock	Main unit key lock
Remote control		×		POWER only	×	POWER only
Main unit keys			×	POWER only	POWER only	×
Remote control emulation				×	×	×
Main unit key emulation				×	×	×

## 7. Power Management Mode

Concerning the processing for switching to the power management standby or exit mode in the remote or local mode

Mode	SX50	SX7/SX60/X700
Remote	The power management standby or exit mode is not established. (No countdown is initiated.)	The power management standby or exit mode is established when no signals are supplied for at least 5 minutes. The countdown is aborted by any command other than GET/RANGE. Control is switched to the "local mode" in the standby or exit mode.
Local	The power management standby or exit mode is established when no signals are supplied for at least 5 minutes.	





## 8. Command List

Item	Commands	Description	Command type			
			Mode	Control	Setting	Reference
1	REMOTE	Switching to Remote mode				
2	LOCAL	Switching to Local mode				
3	POWER	Power supply control				
4	AUTOSETEXE	Auto setup execution				
5	BLANK	BLANK function				
6	INPUT	Input terminal select				
7	AUTOPC	Auto PC execution				
8	DOTS	Total number of dots adjustment				
9	TRACK	Tracking adjustment				
10	HPOS	Horizontal position adjustment				
11	VPOS	Vertical position adjustment				
12	HPIX	Horizontal resolution adjustment				
13	VPIX	Vertical resolution adjustment				
14	SEL	Input signal selection				
15	ASPECT	Screen settings				
16	IMAGE	Image mode				
17	BRI	Brightness setting				
18	CONT	Contrast setting				
19	SHARP	Sharpness setting				
20	GAMMA	Gamma correction				
21	DGAMMA	Dynamic gamma				
22	PROG	Progressive				
23	WB	Screen color correction				
24	WBRGB	Screen color correction (RGB adjustment)				
25	SAT	Color saturation setting				
26	HUE	Hue setting				
27	RGBGAIN	RGB gain adjustment				
28	RGBOFFSET	RGB offset adjustment				
29	ACADJUST	Advanced color adjustment				
30	ACADJUST	Memory color correction				
31	6AXADJ	6-axis adjustment ON/OFF				
32	6AXR	R setting				
33	6AXG	G setting				
34	6AXB	B setting				
35	6AXC	C setting				
36	6AXM	M setting				
37	6AXY	Y setting				
38	LAMP	Lamp mode setting				
39	RESET	Reset				
40	VKS	Trapezoid adjustment (vertical keystone)				
41	HKS	Trapezoid adjustment (horizontal keystone)				
42	AVOL	Volume adjustment				
43	MUTE	Mute				
44	BVOL	Beep sound setting				
45	IMAGEFLIP	Flip display control				
46	PMM	Power management				
47	PJON	Display screen at startup setting				
48	NOSIG	Display screen when no signal setting				
49	NOSHOW	Display screen setting when nothing shown				
50	LOGOPOS	User image position setting				
51	LANG	Language selection				
52	TERMINAL	Terminal setting				
53	KEYLOCK	Key lock setting				
54	RCCH	Remote control setting				
55	GUIDE	Guide setting				
56	DPON	Direct power-on setting				
57	LEDILLUMINATE	Emotional LED and signal sensing LED lighting control				
58	ZSTEPDRV	Zoom lens step drive control				
59	ZCONTDRV	Zoom lens continuous drive control				
60	FSTEPDRV	Focus lens step drive control				
61	FCONTDRV	Focus lens continuous drive control				
62	RC	Remote control operation emulation				
63	MAIN	Front panel button operation emulation				
64	GET	Retrieve data				
65	RANGE	Setting range request				

## 9. Details of command

Descriptions of each command are provided starting from the next page.  
The command descriptions have the format shown below.

		Command type					
Commands	* Alphabetic command name	Mode	Control	Setting	Reference		
Function	* This briefly describes the command function.						
Format	* This indicates the command format.						
Parameter	* This explains the required parameters for the command.				Parameter types		
Response	* This describes the command response.						
Description	* This includes the command function, conditions, and notes.						
Example	* This provides command usage examples.						
Commands supported	SX50 01.****	SX7 11.****	SX60 11.****	X700 11.****			
	* Indicated here are the commands supported by each model (and user command version). "O": supported; "x": not supported.						

Supported Command State \* This defines the environments that support the command (power supply state, input signal state, control mode).

Model	Power			Input								Mode		Remarks	
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote		Local
x	x	x		x	x				x		x	x		x	

The command is enabled in states marked by " ".

The command is enabled in control modes marked by " ".

" " when the power supply state is enabled while power management is in standby. Input signal is required when "x".  
 " " when power supply state is ON.  
 " " when power supply state is OFF.

Commands	REMOTE	Mode	Control	Setting	Reference
<b>Function</b>	Switch to Remote mode				
<b>Format</b>	REMOTE				
<b>Parameter</b>	None				
<b>Response</b>	":OK" is returned when it was possible to switch the mode properly. For all other responses, refer to "Error List."				
<b>Description</b>	<p>This switches to Remote mode.</p> <ul style="list-style-type: none"> <li>-1 During Remote mode, all buttons are disabled except for the front panel and remote control POWER button.</li> <li>-2 This command can be used in any projector mode. However, zoom or focus lens drive stops if the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</li> <li>-3 If, in the power management standby status, the "REMOTE" command was received and operation was switched to the remote mode, the "power-on" (lamp lighted) status is established unconditionally.</li> <li>-4 With the SX50, the setting, control and reference commands except for RC and MAIN can be used only in the remote mode. (RC and MAIN can be used only in the "local mode.") With the SX6, SX60 and X600, there are several setting, control and reference commands which can be used in the local mode. (Refer to the LOCAL command.)</li> <li>-5 When this command is executed, all the statuses and settings listed below are cleared. <ul style="list-style-type: none"> <li>· Digital zoom</li> <li>· Presentation timer display</li> <li>· Spotlight display</li> <li>· Screen temporary off (NoShow)</li> <li>· Freeze image (Freeze)</li> <li>· Command now being executed (except during "user image registration")</li> <li>· Focusing, zooming underway (with the SX6, SX60 and X600)</li> </ul> </li> <li>-6 "Guide display" is not cleared by the transfer of operation to the remote mode. If necessary, clear the display using the GUIDE command.</li> <li>-7 The current mode can be referenced using the applicable GET command.</li> </ul>				
<b>Example</b>	<p>Mode switching</p> <p>&gt; REMOTE</p> <p>&lt; i:OK</p> <p>Mode viewing</p> <p>&gt; GET MODE or</p> <p>&lt; g:MODE=LOCAL</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>				
<b>Commands supported</b>	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**	

Supported Command States

Supported Commands Status															
Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50											—	—			
SX7															
SX60															
X700															

Commands	LOCAL				Mode	Control	Setting	Reference																																																																																									
Function	Switch to Local mode																																																																																																
Format	LOCAL																																																																																																
Parameter	None																																																																																																
Response	"i:OK" is returned when it was possible to switch the mode properly. For all other responses, refer to "Error List."																																																																																																
Description	This switches to Local mode.																																																																																																
	-1 The following commands can be used while the local mode is established.																																																																																																
	<table><tr><th rowspan="2">Command/parameter</th><th colspan="4">Errors supported by model</th></tr><tr><th>SX50 01.00**</th><th>SX7 01.01**</th><th>SX60 01.01**</th><th>X700 01.01**</th></tr><tr><td>REMOTE</td><td></td><td></td><td></td><td></td></tr><tr><td>LOCAL</td><td></td><td></td><td></td><td></td></tr><tr><td>GET MODE</td><td></td><td></td><td></td><td></td></tr><tr><td>GET COMVER</td><td>x</td><td></td><td></td><td></td></tr><tr><td>GET ERR</td><td>x</td><td></td><td></td><td></td></tr><tr><td>GET FREEZE</td><td>x</td><td></td><td></td><td></td></tr><tr><td>GET INPUT</td><td>x</td><td></td><td></td><td></td></tr><tr><td>GET LAMPCOUNTER</td><td>x</td><td></td><td></td><td></td></tr><tr><td>GET MUTE</td><td>x</td><td></td><td></td><td></td></tr><tr><td>GET NOSHOWSTATUS</td><td>x</td><td></td><td></td><td></td></tr><tr><td>GET POWER</td><td>x</td><td></td><td></td><td></td></tr><tr><td>GET PRODCODE</td><td>x</td><td></td><td></td><td></td></tr><tr><td>GET ROMVER</td><td>x</td><td></td><td></td><td></td></tr><tr><td>GET SIGNALSTATUS</td><td>x</td><td></td><td></td><td></td></tr><tr><td>MAIN</td><td></td><td></td><td></td><td></td></tr><tr><td>RC</td><td></td><td></td><td></td><td></td></tr></table>								Command/parameter	Errors supported by model				SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**	REMOTE					LOCAL					GET MODE					GET COMVER	x				GET ERR	x				GET FREEZE	x				GET INPUT	x				GET LAMPCOUNTER	x				GET MUTE	x				GET NOSHOWSTATUS	x				GET POWER	x				GET PRODCODE	x				GET ROMVER	x				GET SIGNALSTATUS	x				MAIN					RC				
	Command/parameter	Errors supported by model																																																																																															
		SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**																																																																																												
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	-2 This command can be used in any projector mode. However, zoom or focus lens drive stops if the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)																																																																																																
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	-4 The "BLANK status" is cleared. Refer to BLANK command.																																																																																																
Example	Mode switching																																																																																																
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Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**																																																																																													

Supported Command States

Supported Command States														
Model	Power			Input								Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	
SX50										-	-			
SX7														
SX60														
X700														

Commands	POWER				Mode	Control	Setting	Reference																								
Function	This controls the power supply																															
Format	POWER <Parameter:ID>																															
Parameter	<table border="1"><thead><tr><th>Parameter</th><th>Meaning</th></tr></thead><tbody><tr><td>ON</td><td>Power ON</td></tr><tr><td>OFF</td><td>Power OFF</td></tr></tbody></table> <p>The parameters which can be controlled at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.</p>							Parameter	Meaning	ON	Power ON	OFF	Power OFF	ID																		
Parameter	Meaning																															
ON	Power ON																															
OFF	Power OFF																															
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."																															
Description	<p>This performs ON/OFF control of the power supply.</p> <p>-1 This command is identical to pressing the POWER button on the remote control or main unit. -2 Provided that the <b>remote mode</b> is established, the command can be executed in any projector status. However, zoom or focus lens drive stops if the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -3 After sending this command, use GET POWER to obtain the power supply state at regular intervals, and check that it is in the controlled state (off or on). -4 The table below shows the POWER command responses according to the power supply state.</p> <table border="1"><caption>POWER Command Responses by Power Supply State</caption><thead><tr><th>Commands \ Status</th><th>POWER ON</th><th>POWER OFF</th></tr></thead><tbody><tr><td>Off</td><td></td><td></td></tr><tr><td>Off -&gt; lighted</td><td></td><td></td></tr><tr><td>Lamp on</td><td></td><td></td></tr><tr><td>Lighted -&gt; off</td><td></td><td></td></tr><tr><td>Lighted -&gt; standby</td><td></td><td></td></tr><tr><td>In standby</td><td></td><td></td></tr><tr><td>Standby -&gt; lighted</td><td></td><td></td></tr></tbody></table> <p>: i:OK : i:BUSY</p> <p>-5 The current power supply status can be referenced using the applicable GET command. For details, refer to the GET command.</p>								Commands \ Status	POWER ON	POWER OFF	Off			Off -> lighted			Lamp on			Lighted -> off			Lighted -> standby			In standby			Standby -> lighted		
Commands \ Status	POWER ON	POWER OFF																														
Off																																
Off -> lighted																																
Lamp on																																
Lighted -> off																																
Lighted -> standby																																
In standby																																
Standby -> lighted																																
Example	<p>Control</p> <p>&gt; POWER ON &lt; i:OK</p> <p>Reference</p> <p>&gt; GET POWER or ?POWER &lt; g:POWER=OFF</p> <p>Acquisition of parameters which can be set</p> <p>&gt; RANGE POWER &lt; r:POWER=I,ON,OFF</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>																															
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**																												

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50										—	—			x	
SX7														x	
SX60															
X700															

\* "i:BUSY" may be returned if the power status is being switched.

[illegible]

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## Supported Command States

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	INPUT				Mode	Control	Setting	Reference										
Function	Input selection																	
Format	INPUT=<Input selection parameters;!D>																	
Parameter	Input selection parameters							ID										
The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.																		
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."																	
Description	<p>This controls the input selection.</p> <p>-1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 This command has the same function as the buttons listed in the table below.</p> <table><tr><th>Model</th><th>Button</th></tr><tr><td>SX50</td><td>Computer-1<sub>J</sub>, ' # -2<sub>J</sub>, 'VIDEO/S<sub>J</sub></td></tr><tr><td>SX7</td><td></td></tr><tr><td>SX60</td><td>INPUT</td></tr><tr><td>X700</td><td></td></tr></table> <p>-3 When the model SX50 is used, "A-RGB2" and "COMP" cannot be selected if "OUT" has been set using the TERMINAL command. ('e:1001 TERMINAL_OUT' is returned.)</p> <p>-4 When the model SX6, SX60 or X600 is used, the input can be selected automatically using the auto setup command (AUTOSETEXE=INPUT). Refer to the AUTOSETEXE command.</p> <p>-5 The current input can be acquired using the applicable GET command. For details, refer to the GET command.</p>								Model	Button	SX50	Computer-1 <sub>J</sub> , ' # -2 <sub>J</sub> , 'VIDEO/S <sub>J</sub>	SX7		SX60	INPUT	X700	
Model	Button																	
SX50	Computer-1 <sub>J</sub> , ' # -2 <sub>J</sub> , 'VIDEO/S <sub>J</sub>																	
SX7																		
SX60	INPUT																	
X700																		
Example	<p>Setting</p> <p>&gt; INPUT=VIDEO VIDEO input selection</p> <p>&lt; i:OK</p> <p>Reference</p> <p>&gt; GET INPUT or ?INPUT This retrieves the input signal</p> <p>&lt; g:INPUT=A-RGB1</p> <p>Acquisition of parameters which can be set</p> <p>&gt; RANGE INPUT</p> <p>&lt; r:INPUT=l, D-RGB, A-RGB1, A-RGB2, COMP, VIDEO, S-VIDEO, D-VIDEO, SCARTRGB</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>																	
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**														

## Supported Command States

Supported Command States															
Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.



Commands	AUTOPC				Mode	Control	Setting	Reference														
Function	Auto PC																					
Format	AUTOPC																					
Parameter	None																					
Response	'i:OK' is returned when control has been executed successfully. For all other responses, refer to "Error List."																					
Description	<p>Auto PC execution</p> <p>-1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTRV command and FCONTRV command.) Furthermore, it may not be possible to execute the command with some input signals.</p> <p>-2 This command is identical to pressing the "AUTOPC" button on the remote control or front pane</p> <p>-3 Execution of this command may modify the following setting values.</p> <ul style="list-style-type: none"><li>· Total number of dots</li><li>· Tracking</li><li>· Horizontal/vertical positions</li><li>· Number of horizontal/vertical display dots</li></ul> <p>-4 To confirm modified setting values, use the GET command of the respective parameter. For details, refer to the GET commands below.</p> <table><thead><tr><th>Setting</th><th>GET</th></tr></thead><tbody><tr><td>Total number of dots</td><td>GET DOTS</td></tr><tr><td>Tracking</td><td>GET TRACK</td></tr><tr><td>Horizontal position</td><td>GET HPOS</td></tr><tr><td>Vertical position</td><td>GET VPOS</td></tr><tr><td>Number of horizontal display dots</td><td>GET HPIX</td></tr><tr><td>Number of vertical display dots</td><td>GET VPIX</td></tr></tbody></table>								Setting	GET	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
Setting	GET																					
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  * Commands are indicated by ">", and responses are indicated by "<".																					
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**																		

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x	x			x	x	x	—	—	x		x	
SX7	x		x	x			x	x	x	x	x	x		x	
SX60															
X700															

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

## Supported Command States

\* "i:BUSY" may be returned if the power status is being switched.

## Supported Command States

\* "i:BUSY" may be returned if the power status is being switched.

Commands	HPOS/VPOS				Mode	Control	Setting	Reference										
Function	Horizontal/Vertical position adjustment																	
Format	HPOS=<Horizontal position: Number> VPOS=<Vertical position: Number>																	
Parameter	Horizontal/vertical positions  The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.							Number										
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."																	
Description	<p>This adjusts the horizontal and vertical position on the screen.</p> <p>-1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) Furthermore, it may not be possible to execute the command with some input signals.</p> <p>-2 This command is the same as the menu functions in the table below.</p> <table border="1"><thead><tr><th>Model</th><th>Menu</th></tr></thead><tbody><tr><td>SX50</td><td>[Display settings] - [Input signal settings] - [Horizontal position] [Display settings] - [Input signal settings] - [Vertical position]</td></tr><tr><td>SX7</td><td>[Display settings] - [Input signal settings] - [Horizontal position]</td></tr><tr><td>SX60</td><td>[Display settings] - [Input signal settings] - [Horizontal position]</td></tr><tr><td>X700</td><td>[Display settings] - [Input signal settings] - [Vertical position]</td></tr></tbody></table> <p>-3 The GET command can be used to retrieve the current horizontal and vertical position. For details, refer to the GET command.</p>								Model	Menu	SX50	[Display settings] - [Input signal settings] - [Horizontal position] [Display settings] - [Input signal settings] - [Vertical position]	SX7	[Display settings] - [Input signal settings] - [Horizontal position]	SX60	[Display settings] - [Input signal settings] - [Horizontal position]	X700	[Display settings] - [Input signal settings] - [Vertical position]
Model	Menu																	
SX50	[Display settings] - [Input signal settings] - [Horizontal position] [Display settings] - [Input signal settings] - [Vertical position]																	
SX7	[Display settings] - [Input signal settings] - [Horizontal position]																	
SX60	[Display settings] - [Input signal settings] - [Horizontal position]																	
X700	[Display settings] - [Input signal settings] - [Vertical position]																	
Example	<p>Setting</p> <p>&gt; HPOS=12 &lt; i:OK</p> <p>This sets the horizontal position to 12.</p> <p>Reference</p> <p>&gt; GET VPOS or ?VPOS &lt; g:VPOS=8</p> <p>This acquires the vertical position.</p> <p>Obtain settable parameter range (Min, Max)</p> <p>&gt; RANGE HPOS &lt; r:HPOS=N, 0, 820</p> <p>Any value from 0 to 820 can be set for the horizontal position.</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>																	
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**														

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x	x			x	x	x	—	—	x		x	
SX7	x		x	x			x	x	x	x	x	x		x	
SX60															
X700															

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

[illegible]

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## Supported Command States

\* "i:BUSY" may be returned if the power status is being switched.

## Supported Command States

\* "i:BUSY" may be returned if the power status is being switched.

Commands	IMAGE	Mode	Control	Setting	Reference																																																										
Function	Image mode setting																																																														
Format	IMAGE=<Image mode setting parameter:ID>																																																														
Parameter	Image mode setting parameters				ID																																																										
	<table><tr><th rowspan="2">Parameter</th><th rowspan="2">Meaning</th><th colspan="4">Errors supported by model</th></tr><tr><th>SX50</th><th>SX6</th><th>SX60</th><th>X600</th></tr><tr><td>STANDARD</td><td>Standard</td><td></td><td></td><td></td><td></td></tr><tr><td>PRESENTATION</td><td>Presentation</td><td></td><td></td><td></td><td></td></tr><tr><td>CINEMA</td><td>Cinema</td><td></td><td>x</td><td>x</td><td>x</td></tr><tr><td>SRGB</td><td>sRGB</td><td></td><td></td><td></td><td></td></tr><tr><td>ADOBE</td><td>ADOBE RGB</td><td>x</td><td></td><td>x</td><td>x</td></tr><tr><td>MOVIE</td><td>Movie</td><td>x</td><td>x</td><td></td><td></td></tr><tr><td>MOVIE_PHOTO</td><td>Movie &amp; Photo</td><td>x</td><td></td><td>x</td><td>x</td></tr><tr><td>HOME_CINEMA</td><td>Home theater</td><td>x</td><td>x</td><td></td><td>x</td></tr></table>					Parameter	Meaning	Errors supported by model				SX50	SX6	SX60	X600	STANDARD	Standard					PRESENTATION	Presentation					CINEMA	Cinema		x	x	x	SRGB	sRGB					ADOBE	ADOBE RGB	x		x	x	MOVIE	Movie	x	x			MOVIE_PHOTO	Movie & Photo	x		x	x	HOME_CINEMA	Home theater	x	x		x
	Parameter	Meaning	Errors supported by model																																																												
			SX50	SX6		SX60	X600																																																								
	STANDARD	Standard																																																													
	PRESENTATION	Presentation																																																													
	CINEMA	Cinema		x		x	x																																																								
	SRGB	sRGB																																																													
	ADOBE	ADOBE RGB	x			x	x																																																								
	MOVIE	Movie	x	x																																																											
MOVIE_PHOTO	Movie & Photo	x		x	x																																																										
HOME_CINEMA	Home theater	x	x		x																																																										
The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.																																																															
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."																																																														
Description	This sets the image quality.																																																														
	-1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTRDV command and FCONTRDV command.)																																																														
	-2 The final settings for the image mode are retained even when the power is turned off.																																																														
	-3 This command is the same as the menu functions in the table below.																																																														
	<table><tr><th>Model</th><th>Menu</th></tr><tr><td>SX50</td><td>[Image adjustments] - [Image mode settings]</td></tr><tr><td>SX7</td><td></td></tr><tr><td>SX60</td><td>[Image adjustments] - [Image mode settings]</td></tr><tr><td>X700</td><td></td></tr></table>				Model	Menu	SX50	[Image adjustments] - [Image mode settings]	SX7		SX60	[Image adjustments] - [Image mode settings]	X700																																																		
	Model	Menu																																																													
	SX50	[Image adjustments] - [Image mode settings]																																																													
	SX7																																																														
	SX60	[Image adjustments] - [Image mode settings]																																																													
	X700																																																														
-4 Changing the setting may modify the following setting values.																																																															
<table><tr><th>Setting</th><th>Commands related to the settings</th><th>Remarks</th></tr><tr><td>Brightness</td><td>BRI</td><td></td></tr><tr><td>Contrast</td><td>CONT</td><td></td></tr><tr><td>Sharpness</td><td>SHARP</td><td></td></tr><tr><td>Gamma adjustment</td><td>GAMMA</td><td></td></tr><tr><td>Dynamic gamma</td><td>DGAMMA</td><td></td></tr><tr><td>Progressive</td><td>PROG</td><td></td></tr><tr><td>Screen color correction/RGB adjustment values</td><td>WB/ WBRGB</td><td>For the SX50</td></tr><tr><td>Saturation/hue</td><td>SAT/ HUE</td><td></td></tr><tr><td>Advanced color adjustment</td><td>ACADJUST</td><td>For the SX50</td></tr><tr><td>Memory color correction</td><td>MEMCADJ</td><td>For the SX6, SX60 or X600</td></tr><tr><td>RGB gain/offset adjustments</td><td>RGBGAIN/RGBOFFSET</td><td>For the SX6, SX60 or X600</td></tr><tr><td>6-axis color adjust</td><td>6AXR ~ Y</td><td></td></tr></table>				Setting	Commands related to the settings	Remarks	Brightness	BRI		Contrast	CONT		Sharpness	SHARP		Gamma adjustment	GAMMA		Dynamic gamma	DGAMMA		Progressive	PROG		Screen color correction/RGB adjustment values	WB/ WBRGB	For the SX50	Saturation/hue	SAT/ HUE		Advanced color adjustment	ACADJUST	For the SX50	Memory color correction	MEMCADJ	For the SX6, SX60 or X600	RGB gain/offset adjustments	RGBGAIN/RGBOFFSET	For the SX6, SX60 or X600	6-axis color adjust	6AXR ~ Y																						
Setting	Commands related to the settings	Remarks																																																													
Brightness	BRI																																																														
Contrast	CONT																																																														
Sharpness	SHARP																																																														
Gamma adjustment	GAMMA																																																														
Dynamic gamma	DGAMMA																																																														
Progressive	PROG																																																														
Screen color correction/RGB adjustment values	WB/ WBRGB	For the SX50																																																													
Saturation/hue	SAT/ HUE																																																														
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Memory color correction	MEMCADJ	For the SX6, SX60 or X600																																																													
RGB gain/offset adjustments	RGBGAIN/RGBOFFSET	For the SX6, SX60 or X600																																																													
6-axis color adjust	6AXR ~ Y																																																														
-5 The current image quality can be acquired using the applicable GET command. For details, refer to the GET command.																																																															
Example	Setting > IMAGE=PRESENTATION < i:OK  Reference > GET IMAGE or ?IMAGE < g:IMAGE=CINEMA  Acquisition of parameters which can be set > RANGE IMAG < r:IMAGE=I, STANDARD, CINEMA, SRGB "STANDARD," "CINEMA" or "SRGB" can be set as the image mode.  * Commands are indicated by ">", and responses are indicated by "<".																																																														
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**																																																											



Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

## Supported Command States

\* "i:BUSY" may be returned if the power status is being switched.

## Supported Command States

\* "i:BUSY" may be returned if the power status is being switched.

## Supported Command States

\* "i:BUSY" may be returned if the power status is being switched.

## Supported Command States

\* "i:BUSY" may be returned if the power status is being switched.

Commands	DGAMMA				Mode	Control	Setting	Reference									
Function	Dynamic gamma																
Format	DGAMMA=<Dynamic gamma setting parameter:ID>																
Parameter	Dynamic gamma setting parameters							ID									
	<table><tr><th>Parameter</th><th>Meaning</th></tr><tr><td>0</td><td>OFF</td></tr><tr><td>1</td><td>ON</td></tr></table> <p>The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.</p>								Parameter	Meaning	0	OFF	1	ON			
Parameter	Meaning																
0	OFF																
1	ON																
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."																
Description	The command is used to set the dynamic gamma function to ON or OFF.																
	<p>-1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 This command is the same as the menu functions in the table below.</p> <table><tr><th>Model</th><th>Menu</th></tr><tr><td>SX50</td><td>[Image adjustments] - [Dynamic gamma]</td></tr><tr><td>SX7</td><td></td></tr><tr><td>SX60</td><td>[Image adjustments] - [Advanced adjustments] - [Dynamic gamma]</td></tr><tr><td>X700</td><td></td></tr></table> <p>-3 This sets the currently selected input signal and image mode. -4 The current dynamic gamma function status can be acquired using the applicable GET command. For details, refer to the GET command.</p>								Model	Menu	SX50	[Image adjustments] - [Dynamic gamma]	SX7		SX60	[Image adjustments] - [Advanced adjustments] - [Dynamic gamma]	X700
Model	Menu																
SX50	[Image adjustments] - [Dynamic gamma]																
SX7																	
SX60	[Image adjustments] - [Advanced adjustments] - [Dynamic gamma]																
X700																	
Example	Setting																
	> DGAMMA=1 < i:OK  This sets the dynamic gamma function to ON.																
Example	Reference																
	> GET DGAMMA or ?DGAMMA < g:DGAMMA=1  This retrieves the dynamic gamma function state.																
Example	Acquisition of parameters which can be set																
	> RANGE DGAMMA < r:DGAMMA=l, 0, 1  The dynamic gamma can be set using "0" or "1."																
* Commands are indicated by ">", and responses are indicated by "<".																	
Commands supported	SX50	SX7	SX60	X700													
	01.00**	01.01**	01.01**	01.01**													

## Supported Command States

[illegible]

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

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<b>Commands supported</b>	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x	x	x	x				—	—	x		x	
SX7	x		x	x	x	x				x	x	x		x	
SX60															
X700															

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.



[illegible]

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[illegible]

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### Supported Command States

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "iBUSY" may be returned if the power status is being switched.

Commands	HUE				Mode	Control	Setting	Reference										
Function	Hue setting																	
Format	HUE=<Hue setting value;Number>																	
Parameter	Hue setting (-20 to 20)  The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.						Number											
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."																	
Description	<p>This sets the screen hue.</p> <p>-1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) Furthermore, it may not be possible to execute the command with some input signals.</p> <p>-2 This command is the same as the menu functions in the table below.</p> <table border="1"><thead><tr><th>Model</th><th>Menu</th></tr></thead><tbody><tr><td>SX50</td><td>[Image adjustments] - [Hue]</td></tr><tr><td>SX7</td><td></td></tr><tr><td>SX60</td><td>[Image adjustments] - [Color adjustments] - [Hue]</td></tr><tr><td>X700</td><td></td></tr></tbody></table> <p>-3 An input signal is required when "VIDEO" or "S-VIDEO" is selected. -4 This sets the currently selected input signal and image mode. -5 The GET command can be used to retrieve the current hue. For details, refer to the GET command.</p>								Model	Menu	SX50	[Image adjustments] - [Hue]	SX7		SX60	[Image adjustments] - [Color adjustments] - [Hue]	X700	
Model	Menu																	
SX50	[Image adjustments] - [Hue]																	
SX7																		
SX60	[Image adjustments] - [Color adjustments] - [Hue]																	
X700																		
Example	<p>Setting</p> <p>&gt; HUE=8 &lt; i:OK</p> <p>This sets the hue to +8.</p> <p>Reference</p> <p>&gt; GET HUE or ?HUE &lt; g:HUE=1</p> <p>This retrieves the hue.</p> <p>Obtain settable parameter range (Min, Max)</p> <p>&gt; RANGE HUE &lt; r:HUE=N,-20,20</p> <p>Any value from -20 to 20 can be set for the hue.</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>																	
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**														

## Supported Command States

Model	Power			Input								Mode		Remarks	
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote		Local
SX50	x		x	x	x	x		-	-	-	-	-		x	
SX7 SX60 X700								-	-	-		x			
	x		x	x	x	x				x	x			x	
							-					x			

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RGBGAIN	Mode	Control	Setting	Reference
Function	RGB gain adjustment				
Format	RGBGAIN=<R gain setting: Number> <G gain setting: Number> <B gain setting: Number>				
Parameter	RGB gain settings (from -20 to 20 for each value)  The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.				Number
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."				
Description	This command is used to adjust the gain of the R, G and B colors.  (1) It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTRV command and FCONTRV command. ) (2) This command functions in the same way as when "Image adjustments" - "Color adjustments" - "Red/green/blue gain" are selected on the menu. (3) This sets the currently selected input signal and image mode. (4) The current RGB gain values can be obtained using the GET command. For details, refer to the GET command.				
Example	Setting > RGBGAIN=10, 11, 12                      The R gain is set to 10, G gain to 11 and B gain to 12. < i:OK  Reference > GET RGBGAIN or ?RGBGAIN                      The RGB gain values are obtained. < g:RGBGAIN=-10, 0, 19  Obtain settable parameter range (Min, Max) > RANGE RGBGAIN < r:RGBGAIN=N,-20,20,-20,20,-20,20                      A number from -20 to 20 can be set for each color as the RGB gain values.  *Commands are indicated by ">", and responses are indicated by "<".				
Commands supported	SX50	SX7	SX60	X700	
	01.00**	01.01**	01.01**	01.01**	
	x				
When a command is not supported, "e:0002 INVALID COMMAND" is returned.					

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RGBOFFSET				Mode	Control	Setting	Reference
Function	RGB offset adjustment							
Format	RGBOFFSET=<R offset setting: Number> <G offset setting: Number> <B offset setting: Number>							
Parameter	RGB offset settings (-20 to 20 for each value)  The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.							Number
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."							
Description	This command is used to adjust the offset of the R, G and B colors.  (1) It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTRDV command and FCONTRDV command. ) (2) This command functions in the same way as when "Image adjustments" - "Color adjustments" - "Red/green/blue offset" are selected on the menu. (3) This sets the currently selected input signal and image mode. (4) The current RGB offset values can be obtained using the GET command. For details, refer to the GET command.							
Example	Setting > RGBOFFSET=10, 11, 12                      The R offset is set to 10, G offset to 11 and B offset to 12. < i:OK  Reference > GET RGBOFFSET or ?RGBOFFSET              The RGB offset values are obtained. < g:RGBOFFSET=-10, 0, 19  Obtain settable parameter range (Min, Max) > RANGE RGBOFFSET < r:RGBOFFSET=N,-20,20,-20,20,-20,20      A number from -20 to 20 can be set for each color as the RGB offset values.  *Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				
	x							
When a command is not supported, "e:0002 INVALID COMMAND" is returned.								

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	ACADJUST				Mode	Control	Setting	Reference													
Function	Advanced color adjustment																				
Format	ACADJUST=<Advanced color adjustment parameter;ID>																				
Parameter	Advanced color adjustment parameters						ID														
	<table><tr><th>Parameter</th><th>Meaning</th></tr><tr><td>NOCORRECT</td><td>No adjustment</td></tr><tr><td>MEM_L</td><td>Low memory color adjustment</td></tr><tr><td>MEM_M</td><td>Medium memory color adjustment</td></tr><tr><td>MEM_H</td><td>High memory color adjustment</td></tr><tr><td>6AX</td><td>6-axis adjustment</td></tr></table>							Parameter	Meaning	NOCORRECT	No adjustment	MEM_L	Low memory color adjustment	MEM_M	Medium memory color adjustment	MEM_H	High memory color adjustment	6AX	6-axis adjustment		
	Parameter	Meaning																			
NOCORRECT	No adjustment																				
MEM_L	Low memory color adjustment																				
MEM_M	Medium memory color adjustment																				
MEM_H	High memory color adjustment																				
6AX	6-axis adjustment																				
The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.																					
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."																				
Description	<p>The advanced color correction method is set by selecting from "No correction", "Low to High memory color correction", and "6-axis adjustment".</p> <p>-1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 This command is identical to the Color balance function in the Image adj. menu.</p> <p>-3 In the case of "6-axis adjustment," set the hue and color saturation of each axis using the 6AXR to Y "6-axis correction R to Y hue/color saturation setting" commands.</p> <p>-4 This sets the currently selected input signal and image mode.</p> <p>-5 The GET command can be used to retrieve the current color compensation method. For details, refer to the GET command.</p>																				
Example	Control				The color correction is set to "Medium memory color adjustment".																
	> ACADJUST=MEM_M																				
	< i:OK																				
	Reference				This retrieves the color correction method.																
	> GET ACADJUST or ?ACADJUST																				
	< g:ACADJUST=6AX																				
	Acquisition of parameters which can be set																				
	> RANGE ACADJUST																				
	< r:ACADJUST=l,NOCORRECT,MEM_L,MEM_M,MEM_H,6AX				"NO CORRECT," "MEM_L," "MEM_M," "MEM_H" or "6AX" can be set as the color correction method.																
* Commands are indicated by ">", and responses are indicated by "<".																					
Commands supported	SX50	SX7	SX60	X700																	
	01.00**	01.01**	01.01**	01.01**																	
		x	x	x																	
When a command is not supported, "e:0002 INVALID_COMMAND" is returned.																					

## Supported Command States

Model	Power			Input										Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local		
SX50	x		x	x	x	x				-	-			x		
SX7	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SX60																
X700																

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	MEMCADJ				Mode	Control	Setting	Reference									
Function	Memory color adjustment																
Format	MEMCADJ=<Memory color adjustment parameter:ID>																
Parameter	Memory color adjustment parameters						ID	Reference									
<table><tr><th>Parameter</th><th>Meaning</th></tr><tr><td>OFF</td><td>No adjustment</td></tr><tr><td>MEM_L</td><td>Low memory color adjustment</td></tr><tr><td>MEM_M</td><td>Medium memory color adjustment</td></tr><tr><td>MEM_H</td><td>High memory color adjustment</td></tr></table>						Parameter			Meaning	OFF	No adjustment	MEM_L	Low memory color adjustment	MEM_M	Medium memory color adjustment	MEM_H	High memory color adjustment
Parameter	Meaning																
OFF	No adjustment																
MEM_L	Low memory color adjustment																
MEM_M	Medium memory color adjustment																
MEM_H	High memory color adjustment																
The parameters which can be set at any given point in time can be obtained using the RANGE command.																	
For details, refer to the RANGE command.																	
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."																
Description	This command is used to select no adjustment (OFF), low (MEM_L), medium (MEM_M) or high (MEM_H) as the memory color adjustment setting.  (1) It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTDRV command and FCONTDRV command. ) (2) This command functions in the same way as when "Image adjustments" - "Memory color adjustment" are selected on the menu. (3) This sets the currently selected input signal and image mode. (4) The current memory color adjustment setting can be obtained using the GET command. For details, refer to the GET command.																
Example	Control > MEMCADJ=MEM_M < i:OK The color adjustment is set to "Medium memory color adjustment".  Reference > GET MEMCADJ or ?MEMCADJ < g:MEMCADJ=MEM_M The memory color adjustment level is obtained.  Acquisition of parameters which can be set > RANGE MEMCADJ < r:MEMCADJ=I,OFF,MEM_L,MEM_M,MEM_H No adjustment (OFF), low (MEM_L), medium (MEM_M) or high (MEM_H) can be set for the memory color adjustment.  *Commands are indicated by ">", and responses are indicated by "<".																
Commands supported	SX50	SX7	SX60	X700													
	01.00**	01.01**	01.01**	01.01**													
	x																
When a command is not supported, "e:0002 INVALID.COMMAND" is returned.																	

## Supported Command States

Support terminal States																
Model	Power supply			Input										Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local		
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SX7	x		x											x		
SX60																
X700																

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.



Commands	6AXADJ				Mode	Control	Setting	Reference						
Function	6-axis adjustment ON/OFF													
Format	6AXADJ=<6-axis adjustment parameter[:ID]>													
Parameter	<table border="1"><thead><tr><th>Parameter</th><th>Meaning</th></tr></thead><tbody><tr><td>ON</td><td>This sets the 6-axis adjustment to ON.</td></tr><tr><td>OFF</td><td>This sets the 6-axis adjustment to OFF.</td></tr></tbody></table> <p>The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.</p>							Parameter	Meaning	ON	This sets the 6-axis adjustment to ON.	OFF	This sets the 6-axis adjustment to OFF.	ID
Parameter	Meaning													
ON	This sets the 6-axis adjustment to ON.													
OFF	This sets the 6-axis adjustment to OFF.													
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."													
Description	<p>This command is used to select ON or OFF for the 6-axis adjustment.</p> <p>(1) It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTDRV command and FCONTDRV command. )</p> <p>(2) In the case of "6-axis adjustment," set the hue and color saturation of each axis using the 6AXR to Y "6-axis correction R to Y hue/color saturation setting" commands.</p> <p>(3) This command functions in the same way as when "Image adjustments" - "6-axis adjustment" are selected on the menu.</p> <p>(4) This sets the currently selected input signal and image mode.</p> <p>(5) The current 6-axis adjustment setting can be obtained using the GET command. For details, refer to the GET command.</p>													
Example	<p>Control</p> <p>&gt; 6AXADJ=ON    </p>													

## Supported Command States

[illegible]

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	6AXR-Y				Mode	Control	Setting	Reference										
Function	6-axis correction R-Y hue/saturation settings																	
Format	6AXR=<R hue: Number> <R saturation: Number> 6AXG=<G hue: Number> <G saturation: Number> 6AXB=<B hue: Number> <B saturation: Number> 6AXC=<C hue: Number> <C saturation: Number> 6AXM=<M hue: Number> <M saturation: Number> 6AXY=<Y hue: Number> <Y saturation: Number>																	
Parameter	Setting values for hue and color saturation (–20 to 20)  <Hue: Number> <Saturation: Number>  The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.						Number											
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."																	
Description	<p>This sets the 6-axis correction of the hue and color saturation for R to Y.</p> <p>-1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 These commands take effect when 6-axis adjustment (6AX) has been selected by the advanced color adjustment command (ACADJUST) or when they have been set to valid using the 6-axis adjustment command (6AXADJ), and they can be set separately.</p> <p>-3 This command is the same as the menu functions in the table below.</p> <table border="1"><thead><tr><th>Model</th><th>Menu</th></tr></thead><tbody><tr><td>SX50</td><td>[Image adjustments] - [Advanced color adjustments] - [6-axis color adjustments]</td></tr><tr><td>SX7</td><td>[Image adjustments] - [Advanced adjustments] - [6-axis color adjustments] -</td></tr><tr><td>SX60</td><td>[Adjustments]</td></tr><tr><td>X700</td><td></td></tr></tbody></table> <p>-4 This sets the currently selected input signal and image mode.</p> <p>-5 The current color adjustment values can be acquired using the applicable GET commands. For details, refer to the GET command.</p>								Model	Menu	SX50	[Image adjustments] - [Advanced color adjustments] - [6-axis color adjustments]	SX7	[Image adjustments] - [Advanced adjustments] - [6-axis color adjustments] -	SX60	[Adjustments]	X700	
Model	Menu																	
SX50	[Image adjustments] - [Advanced color adjustments] - [6-axis color adjustments]																	
SX7	[Image adjustments] - [Advanced adjustments] - [6-axis color adjustments] -																	
SX60	[Adjustments]																	
X700																		
Example	<p>Setting</p> <p>&gt; 6AXR=-8, 5</p> <p>&lt; i:OK</p> <p>The R hue is set to –8, and the color saturation is set to 5.</p> <p>Reference</p> <p>&gt; GET 6AXR or ?6AXR</p> <p>&lt; g:6AXR=12, -8</p> <p>This retrieves the R hue and color saturation.</p> <p>Obtain settable parameter range (Min, Max)</p> <p>&gt; RANGE 6AXC</p> <p>&lt; r:6AXC=N,-20,20,-20,20</p> <p>Any value from -20 to 20 can be set for the hue and saturation of the C (cyan) color.</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>																	
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**														

## Supported Command States

Supported Commands Status															
Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x								—	—		x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	LAMP				Mode	Control	Setting	Reference										
Function	Lamp output setting																	
Format	LAMP=<Lamp output setting parameters:ID>																	
Parameter	Lamp output setting parameters						ID											
<table border="1"><thead><tr><th>Parameter</th><th>Meaning</th></tr></thead><tbody><tr><td>NORMAL</td><td>Normal</td></tr><tr><td>SILENT</td><td>Silent cooling</td></tr></tbody></table>						Parameter		Meaning	NORMAL	Normal	SILENT	Silent cooling						
Parameter	Meaning																	
NORMAL	Normal																	
SILENT	Silent cooling																	
The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.																		
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."																	
Description	<p>This command is used to set the light quantity of the lamp to "NORMAL" or "SILENT" (reduced light quantity appropriate for silent cooling).</p> <p>-1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTRV command and FCONTRV command.)</p> <p>-2 This command is the same as the menu functions in the table below.</p> <table border="1"><thead><tr><th>Model</th><th>Menu</th></tr></thead><tbody><tr><td>SX50</td><td>[Image adjustments] - [Lamp mode]</td></tr><tr><td>SX7</td><td></td></tr><tr><td>SX60</td><td>[Image adjustments] - [Lamp mode]</td></tr><tr><td>X700</td><td></td></tr></tbody></table> <p>-3 The current lamp output can be acquired using the applicable GET command. For details, refer to the GET command.</p>								Model	Menu	SX50	[Image adjustments] - [Lamp mode]	SX7		SX60	[Image adjustments] - [Lamp mode]	X700	
Model	Menu																	
SX50	[Image adjustments] - [Lamp mode]																	
SX7																		
SX60	[Image adjustments] - [Lamp mode]																	
X700																		
Example	<p>Setting</p> <p>&gt; LAMP=NORMAL    </p>																	

## Supported Command States

[illegible]

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RESET				Mode	Control	Setting	Reference										
Function	Reset																	
Format	RESET <Reset parameters:ID>																	
Parameter	Reset parameters <table border="1"><thead><tr><th>Parameter</th><th>Meaning</th></tr></thead><tbody><tr><td>LAMPTIME</td><td>Lamp on time reset</td></tr><tr><td>IMAGE</td><td>Current image adjustment reset</td></tr><tr><td>SYSTEM</td><td>Initial system settings</td></tr><tr><td>ALL</td><td>Factory settings</td></tr></tbody></table>							Parameter	Meaning	LAMPTIME	Lamp on time reset	IMAGE	Current image adjustment reset	SYSTEM	Initial system settings	ALL	Factory settings	ID
Parameter	Meaning																	
LAMPTIME	Lamp on time reset																	
IMAGE	Current image adjustment reset																	
SYSTEM	Initial system settings																	
ALL	Factory settings																	
Response	An 'i:OK' is returned when the reset process is successful. Furthermore, the internal status established when a response other than the normal response ("i:OK") has been returned is indeterminate. For all other responses, refer to "Error List."																	
Description	<p>This resets the projector settings.</p> <p>-1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 What can be specified by the reset parameters for each "reset type" is provided below.</p> <p>Reset of lamp on time</p> <p>(a) The counter indicating the lamp replacement period is reset.</p> <p>(b) This command is identical to the Reset function under Lamp counter in the System settings menu.</p> <p>(c) Execute this command after replacing the lamp.</p> <p>Current image adjustment reset</p> <p>(a) The adjustment settings of the currently-selected image mode are initialized.</p> <p>(b) This command is identical to the Reset function in the Image adj. menu. If there is an input signal, the image adjustment items are initialized and then the adjustment values are optimized for the signal.</p> <p>Reset of system settings</p> <p>(a) The following items are initialized.</p> <ul style="list-style-type: none"><li>- Image adjustment items (all image modes)</li><li>- Initial settings executed</li></ul> <p>* For details, refer to 'RESET items' at the end of these specifications.</p> <p>(b) This command works in the same way as the menu [System settings] - [Initial settings] function.</p> <p>Factory settings</p> <p>(a) The following items are initialized.</p> <ul style="list-style-type: none"><li>- Image adjustment items (all image modes)</li><li>- Initial settings executed</li><li>- Input source &lt;-A-RGB2</li><li>- Language &lt;- English</li></ul> <p>* For details, refer to 'RESET items' at the end of these specifications.</p> <p>-3 Notes</p> <p>(a) The power must never be turned off while this command is being executed!</p> <p>(b) After the 'Factory settings,' <b>be absolutely sure to turn the power off and then restart.</b></p> <p>(c) 'NO_SIGNAL' may be returned as the response to the command after 'Current image adjustment reset' or 'System initial setting' has been executed.</p>																	
Example	Control > RESET LAMPTIME                      This resets the lamp on time. < i:OK																	
* Commands are indicated by ">", and responses are indicated by "<".																		
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**														

## Supported Command States

Supported Command States															
Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x								—	—		x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

## Supported Command States

- \* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.
- \* If the necessary signals are not input, 'NO\_SIGNAL' is returned.
- \* "i:BUSY" may be returned if the power status is being switched.

## Supported Command States

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	MUTE				Mode	Control	Setting	Reference						
Function	Mute control													
Format	MUTE=<Mute control parameter: ID>													
Parameter	Mute control parameter						ID							
	<table><tr><th>Parameter</th><th>Meaning</th></tr><tr><td>ON</td><td>This turns off the audio/beep sound.</td></tr><tr><td>OFF</td><td>This returns the audio/beep sound to its original setting.</td></tr></table>							Parameter	Meaning	ON	This turns off the audio/beep sound.	OFF	This returns the audio/beep sound to its original setting.	
	Parameter	Meaning												
	ON	This turns off the audio/beep sound.												
OFF	This returns the audio/beep sound to its original setting.													
The parameters which can be set at any given point in time can be obtained using the RANGE command.														
For details, refer to the RANGE command.														
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."													
Description	This command is used to set the sound output muting to ON or OFF.  -1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 The mute setting is always "OFF" when the power has just been turned on. -3 This command is identical to pressing the MUTE button on the remote control. -4 Mute control enables simultaneous control of the audio and beep sound. -5 The current muting status can be acquired using the applicable GET command. For details, refer to the GET command.													
Example	Setting													
	> MUTE=ON				This mutes the volume.									
	< i:OK													
	Reference													
> GET MUTE or ?MUTE				This retrieves the volume state.										
< g:MUTE=ON														
Acquisition of parameters which can be set														
> RANGE MUTE														
< r:MUTE=l, ON, OFF				"ON" or "OFF" can be set for muting control.										
* Commands are indicated by ">", and responses are indicated by "<".														
Commands supported	SX50	SX7	SX60	X700										
	01.00**	01.01**	01.01**	01.01**										

## Supported Command States

[illegible]

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

[illegible]

\* "i:BUSY" may be returned if the power status is being switched.



Commands	IMAGEFLIP				Mode	Control	Setting	Reference																
Function	Flip display																							
Format	IMAGEFLIP=<Image flip setting parameters :ID>																							
Parameter	Image flip setting parameters						ID																	
<table><tr><th>Parameter</th><th>Meaning</th><th>Remarks</th></tr><tr><td>NONE</td><td>None</td><td></td></tr><tr><td>CEILING</td><td>Ceiling</td><td>Flip horizontally</td></tr><tr><td>REAR</td><td>Rear</td><td>Flip vertically</td></tr><tr><td>REAR_CEILING</td><td>Rear ceiling</td><td>Flip horizontally and vertically</td></tr></table>						Parameter		Meaning	Remarks	NONE	None		CEILING	Ceiling	Flip horizontally	REAR	Rear	Flip vertically	REAR_CEILING	Rear ceiling	Flip horizontally and vertically			
Parameter	Meaning	Remarks																						
NONE	None																							
CEILING	Ceiling	Flip horizontally																						
REAR	Rear	Flip vertically																						
REAR_CEILING	Rear ceiling	Flip horizontally and vertically																						
The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.																								
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."																							
Description	<p>This command is used to flip the screen display in various ways (vertically or horizontally).</p> <p>-1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTRV command and FCONTRV command.)</p> <p>-2 This command is the same as the menu functions in the table below.</p> <table><tr><th>Model</th><th>Menu</th></tr><tr><td>SX50</td><td>[Display settings] - [Flip display]</td></tr><tr><td>SX7</td><td></td></tr><tr><td>SX60</td><td>[Display settings] - [Flip display]</td></tr><tr><td>X700</td><td></td></tr></table> <p>-3 When the display is flipped, the "keystone distortion" settings are initialized (set to HKS:0, VKS:0).</p> <p>-4 The current flip display status can be acquired using the applicable GET command. For details, refer to the GET command.</p>								Model	Menu	SX50	[Display settings] - [Flip display]	SX7		SX60	[Display settings] - [Flip display]	X700							
Model	Menu																							
SX50	[Display settings] - [Flip display]																							
SX7																								
SX60	[Display settings] - [Flip display]																							
X700																								
Example	<p>Setting</p> <p>&gt; IMAGEFLIP=REAR</p> <p>&lt; i:OK</p> <p>This displays the image backwards (flip vertically) on the screen.</p> <p>Reference</p> <p>&gt; GET IMAGEFLIP or ?IMAGEFLIP</p> <p>&lt; g:IMAGEFLIP=REAR_CEILING</p> <p>This retrieves the flip display state.</p> <p>Acquisition of parameters which can be set</p> <p>&gt; RANGE IMAGEFLIP</p> <p>&lt; r:IMAGEFLIP=I,NONE,CEILING,REAR,REAR_CEILING</p> <p>"NONE," "CEILING," "REAR" or "REAR CEILING" can be selected as the flip display setting.</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>																							
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**																				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	PMM				Mode	Control	Setting	Reference																				
Function	Power management																											
Format	PMM=<Power management setting parameters :ID>																											
Parameter	Power management setting parameters							ID																				
	<table><tr><th>Parameter</th><th>Meaning</th></tr><tr><td>OFF</td><td>OFF</td></tr><tr><td>STANDBY</td><td>Standby mode</td></tr><tr><td>EXIT</td><td>Exit mode</td></tr></table>								Parameter	Meaning	OFF	OFF	STANDBY	Standby mode	EXIT	Exit mode												
	Parameter	Meaning																										
OFF	OFF																											
STANDBY	Standby mode																											
EXIT	Exit mode																											
The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.																												
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."																											
Description	This sets Power management mode.																											
	<p>-1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time.</p> <p>A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 This command is the same as the menu functions in the table below.</p> <table><tr><th>Model</th><th>Menu</th></tr><tr><td>SX50</td><td>[System settings] - [Power management modes]</td></tr><tr><td>SX7</td><td></td></tr><tr><td>SX60</td><td>[System settings] - [Power management modes]</td></tr><tr><td>X700</td><td></td></tr></table> <p>-2 With the SX6, SX60 or X600, power management cannot be set to OFF if ON has been selected as the direct power-on setting (DPON=ON). ("e:1005 DIRECT_POWER_ON" is</p> <p>-3 The projector behaves as follows with the power management setting and in the remote mode.</p> <table><tr><th>Model</th><th>Projector behavior</th></tr><tr><td>SX50</td><td>In the remote mode, the power management setting is ignored. This setting takes effect only when the local mode is established.</td></tr><tr><td>SX7</td><td>Even in the remote mode, the projector operates as per the power management setting.</td></tr><tr><td>SX60</td><td></td></tr><tr><td>X700</td><td>However, when it starts operating, it is automatically transferred to the "local mode."</td></tr></table> <p>-4 The current power management mode can be acquired using the applicable GET command. For details, refer to the GET command.</p>								Model	Menu	SX50	[System settings] - [Power management modes]	SX7		SX60	[System settings] - [Power management modes]	X700		Model	Projector behavior	SX50	In the remote mode, the power management setting is ignored. This setting takes effect only when the local mode is established.	SX7	Even in the remote mode, the projector operates as per the power management setting.	SX60		X700	However, when it starts operating, it is automatically transferred to the "local mode."
	Model	Menu																										
SX50	[System settings] - [Power management modes]																											
SX7																												
SX60	[System settings] - [Power management modes]																											
X700																												
Model	Projector behavior																											
SX50	In the remote mode, the power management setting is ignored. This setting takes effect only when the local mode is established.																											
SX7	Even in the remote mode, the projector operates as per the power management setting.																											
SX60																												
X700	However, when it starts operating, it is automatically transferred to the "local mode."																											
Example	Setting																											
	> PMM=STANDBY				This sets the power management to "standby."																							
	< i:OK																											
	Reference																											
	> GET PMM or ?PMM				This retrieves the Power management mode.																							
	< g:PMM=EXIT																											
	Acquisition of parameters which can be set																											
	> RANGE PMM																											
	< r:PMM=l, OFF, STANDBY, EXIT				"OFF," "STANDBY" or "EXIT" can be set for the power management.																							
* Commands are indicated by ">", and responses are indicated by "<".																												
Commands supported	SX50	SX7	SX60	X700																								
	01.00**	01.01**	01.01**	01.01**																								

## Supported Command States

Supported Settings Status															
Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x								—	—		x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	PJON				Mode	Control	Setting	Reference									
Function	Display screen at startup setting																
Format	PJON=<Parameters for setting display screen at startup;ID>																
Parameter	Parameters for setting display screen at startup							ID									
	<table><tr><th>Parameter</th><th>Meaning</th></tr><tr><td>CANON</td><td>Canon logo</td></tr><tr><td>SKIP</td><td>No display</td></tr><tr><td>LOGO</td><td>User screen</td></tr></table> <p>The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.</p>								Parameter	Meaning	CANON	Canon logo	SKIP	No display	LOGO	User screen	
Parameter	Meaning																
CANON	Canon logo																
SKIP	No display																
LOGO	User screen																
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."																
Description	This sets the screen displayed at startup.																
	<p>-1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 This command is the same as the menu functions in the table below.</p> <table><tr><th>Model</th><th>Menu</th></tr><tr><td>SX50</td><td>[Display settings] - [User screen settings] - [Screen at startup]</td></tr><tr><td>SX7</td><td></td></tr><tr><td>SX60</td><td>[Display settings] - [User screen settings] - [Screen at startup]</td></tr><tr><td>X700</td><td></td></tr></table> <p>-3 To select the user screen (LOGO), the user image must be registered ahead of time. (If the user image is not registered, "e:1002 NO_LOGO_CAPTURED" is returned.)</p> <p>-4 The GET command can be used to obtain the current screen displayed at startup. For details, refer to the GET command.</p>								Model	Menu	SX50	[Display settings] - [User screen settings] - [Screen at startup]	SX7		SX60	[Display settings] - [User screen settings] - [Screen at startup]	X700
Model	Menu																
SX50	[Display settings] - [User screen settings] - [Screen at startup]																
SX7																	
SX60	[Display settings] - [User screen settings] - [Screen at startup]																
X700																	
Example	Setting																
	<p>&gt; PJON=CANON    </p>																

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	NOSIG				Mode	Control	Setting	Reference										
Function	Display screen when no signal setting																	
Format	NOSIG=<Parameters for setting display screen in no-signal mode:ID>																	
Parameter	Parameters for setting display screen in no-signal mode						ID											
<table><tr><th>Parameter</th><th>Meaning</th></tr><tr><td>BLACK</td><td>Black screen</td></tr><tr><td>BLUE</td><td>Blue screen</td></tr><tr><td>LOGO</td><td>User screen</td></tr></table>						Parameter			Meaning	BLACK	Black screen	BLUE	Blue screen	LOGO	User screen			
Parameter	Meaning																	
BLACK	Black screen																	
BLUE	Blue screen																	
LOGO	User screen																	
The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.																		
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."																	
Description	<p>This sets the display screen when no image signals are input.</p> <p>-1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 This command is the same as the menu functions in the table below.</p> <table><tr><th>Model</th><th>Menu</th></tr><tr><td>SX50</td><td>[Display settings] - [User screen settings] - [Screen in no-signal mode]</td></tr><tr><td>SX7</td><td></td></tr><tr><td>SX60</td><td>[Display settings] - [User screen settings] - [Screen in no-signal mode]</td></tr><tr><td>X700</td><td></td></tr></table> <p>-3 To select the user screen (LOGO), the user image must be registered ahead of time. (If the user image is not registered, "e:1002 NO_LOGO_CAPTURED" is returned.)</p> <p>-4 The GET command can be used to obtain the current display screen at no signal. For details, refer to the GET command.</p>								Model	Menu	SX50	[Display settings] - [User screen settings] - [Screen in no-signal mode]	SX7		SX60	[Display settings] - [User screen settings] - [Screen in no-signal mode]	X700	
Model	Menu																	
SX50	[Display settings] - [User screen settings] - [Screen in no-signal mode]																	
SX7																		
SX60	[Display settings] - [User screen settings] - [Screen in no-signal mode]																	
X700																		
Example	<p>Setting</p> <p>&gt; NOSIG=BLUE    </p>																	

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	NOSHOW				Mode	Control	Setting	Reference									
Function	Display screen setting when nothing shown																
Format	NOSHOW=<Parameters for setting display screen in no show status :!D>																
Parameter	Parameters for setting display screen in no show status							ID									
	<table><tr><th>Parameter</th><th>Meaning</th></tr><tr><td>BLACK</td><td>Black screen</td></tr><tr><td>BLUE</td><td>Blue screen</td></tr><tr><td>LOGO</td><td>User screen</td></tr></table> <p>The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.</p>								Parameter	Meaning	BLACK	Black screen	BLUE	Blue screen	LOGO	User screen	
Parameter	Meaning																
BLACK	Black screen																
BLUE	Blue screen																
LOGO	User screen																
Response	"!:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."																
Description	This command is used to set the screen which is to appear in the no show status.																
	<p>-1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 This command is the same as the menu functions in the table below.</p> <table><tr><th>Model</th><th>Menu</th></tr><tr><td>SX50</td><td>[Display settings] - [User screen settings] - [Screen in no show status]</td></tr><tr><td>SX7</td><td></td></tr><tr><td>SX60</td><td>[Display settings] - [User screen settings] - [Screen in no show status]</td></tr><tr><td>X700</td><td></td></tr></table> <p>-3 To select the user screen (LOGO), the user image must be registered ahead of time. (If the user image is not registered, "e:1002 NO_LOGO_CAPTURED" is returned.)</p> <p>-4 The GET command can be used to obtain the current display screen when nothing is shown. For details, refer to the GET command.</p>								Model	Menu	SX50	[Display settings] - [User screen settings] - [Screen in no show status]	SX7		SX60	[Display settings] - [User screen settings] - [Screen in no show status]	X700
Model	Menu																
SX50	[Display settings] - [User screen settings] - [Screen in no show status]																
SX7																	
SX60	[Display settings] - [User screen settings] - [Screen in no show status]																
X700																	
Example	Setting																
	> NOSHOW=LOGO																

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	LOGOPOS				Mode	Control	Setting	Reference												
Function	User image position setting																			
Format	LOGOPOS=<User image position setting parameters:ID>																			
Parameter	User image position setting parameters <table border="1"><thead><tr><th>Parameter</th><th>Meaning</th></tr></thead><tbody><tr><td>UPPER_L</td><td>Upper left</td></tr><tr><td>UPPER_R</td><td>Upper right</td></tr><tr><td>CENTER</td><td>Center</td></tr><tr><td>LOWER_L</td><td>Lower left</td></tr><tr><td>LOWER_R</td><td>Lower right</td></tr></tbody></table> <p>The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.</p>							Parameter	Meaning	UPPER_L	Upper left	UPPER_R	Upper right	CENTER	Center	LOWER_L	Lower left	LOWER_R	Lower right	ID
Parameter	Meaning																			
UPPER_L	Upper left																			
UPPER_R	Upper right																			
CENTER	Center																			
LOWER_L	Lower left																			
LOWER_R	Lower right																			
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."																			
Description	<p>This sets the logo display position.</p> <p>-1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTRV command and FCONTRV command.)</p> <p>-2 This command is the same as the menu functions in the table below.</p> <table border="1"><thead><tr><th>Model</th><th>Menu</th></tr></thead><tbody><tr><td>SX50</td><td>[Display settings] - [User screen settings] - [User image position]</td></tr><tr><td>SX7</td><td></td></tr><tr><td>SX60</td><td>[Display settings] - [User screen settings] - [User image position]</td></tr><tr><td>X700</td><td></td></tr></tbody></table> <p>-3 This setting cannot be made unless the user screen is registered beforehand. (Error "e:1002 NO_LOGO_CAPTURED" is returned.)</p> <p>-4 The current display position can be acquired using the applicable GET command. For details, refer to the GET command.</p>								Model	Menu	SX50	[Display settings] - [User screen settings] - [User image position]	SX7		SX60	[Display settings] - [User screen settings] - [User image position]	X700			
Model	Menu																			
SX50	[Display settings] - [User screen settings] - [User image position]																			
SX7																				
SX60	[Display settings] - [User screen settings] - [User image position]																			
X700																				
Example	<p>Setting</p> <p>&gt; LOGOPOS=UPPER_R    </p>																			

## Supported Command States

[illegible]

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

[illegible]

\* "i:BUSY" may be returned if the power status is being switched.

Commands		TERMINAL				Mode	Control	Setting	Reference						
Function	Terminal setting														
Format	TERMINAL=<Terminal setting parameters;!D>														
Parameter	<div>Terminal setting parameters</div> <table><tr><th>Parameter</th><th>Meaning</th></tr><tr><td>IN</td><td>This sets to input</td></tr><tr><td>OUT</td><td>This sets to output</td></tr></table> <div>The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.</div>								Parameter	Meaning	IN	This sets to input	OUT	This sets to output	ID
Parameter	Meaning														
IN	This sets to input														
OUT	This sets to output														
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."														
Description	<div>This sets the input/output of the RGB-IN2/COMPONENT IN/RGB OUT terminals.</div> <div>-1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. -2 This command is identical to the Terminal command in the System settings menu. -3 The "OUT" (output) setting cannot be made when the "A-RGB2" or "COMP" input is selected! -4 The current terminal setting can be acquired using the applicable GET command. For details, refer to the GET command.</div>														
Example	<div>Setting</div> <div>&gt; TERMINAL=IN &lt; i:OK</div> <div>This sets to input</div> <div>Reference</div> <div>&gt; GET TERMINAL or ?TERMINAL &lt; g:TERMINAL=OUT</div> <div>This retrieves the terminal setting state.</div> <div>Acquisition of parameters which can be set</div> <div>&gt; RANGE TERMINAL &lt; r:TERMINAL=I, IN, OUT</div> <div>"IN" or "OUT" can be selected as the terminal setting.</div> <div>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</div>														
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**											
		x	x	x											
When a command is not supported, "e:0002 INVALID_COMMAND" is returned.															

## Supported Command States

[illegible]

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'TERMINAL\_OUT' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.



Commands	KEYLOCK				Mode	Control	Setting	Reference										
Function	Keylock setting																	
Format	KEYLOCK=<Key lock setting parameters:ID>																	
Parameter	<div>Key lock setting parameters</div> <table><tr><th>Parameter</th><th>Meaning</th></tr><tr><td>OFF</td><td>No locking (OFF)</td></tr><tr><td>MAIN</td><td>Main key lock</td></tr><tr><td>RC</td><td>Remote control key lock</td></tr></table> <div>The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.</div>							Parameter	Meaning	OFF	No locking (OFF)	MAIN	Main key lock	RC	Remote control key lock	ID		
Parameter	Meaning																	
OFF	No locking (OFF)																	
MAIN	Main key lock																	
RC	Remote control key lock																	
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."																	
Description	<div>This command is used to lock the keys so as to restrict the operations performed using the remote control or main unit.</div> <div>-1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTRV command and FCONTRV command.)</div> <div>-2 This command is the same as the menu functions in the table below.</div> <table><tr><th>Model</th><th>Menu</th></tr><tr><td>SX50</td><td>[System settings] - [Key lock]</td></tr><tr><td>SX7</td><td></td></tr><tr><td>SX60</td><td>[System settings] - [Key lock]</td></tr><tr><td>X700</td><td></td></tr></table> <div>-3 This command will not affect the emulation function (remote control or main unit commands) even if the main unit or remote control keys are locked!</div> <div>-4 The current key lock setting can be acquired using the applicable GET command. For details, refer to the GET command.</div>								Model	Menu	SX50	[System settings] - [Key lock]	SX7		SX60	[System settings] - [Key lock]	X700	
Model	Menu																	
SX50	[System settings] - [Key lock]																	
SX7																		
SX60	[System settings] - [Key lock]																	
X700																		
Example	<div>Setting</div> <div>&gt; KEYLOCK=RC &lt; i:OK</div> <div>This locks the remote control keys.</div> <div>Reference</div> <div>&gt; GET KEYLOCK or ?KEYLOCK &lt; g:KEYLOCK=OFF</div> <div>This retrieves the key lock state.</div> <div>Acquisition of parameters which can be set</div> <div>&gt; RANGE KEYLOCK &lt; r:KEYLOCK=l,OFF,MAIN,RC</div> <div>"OFF," "MAIN" or "RC" can be selected as the key lock setting.</div> <div>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</div>																	
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**														

## Supported Command States

[illegible]

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RCCH				Mode	Control	Setting	Reference									
Function	Remote control setting																
Format	RCCH=<Remote control setting parameters:ID>																
Parameter	Remote control setting parameters						ID										
	<table><tr><th>Parameter</th><th>Meaning</th></tr><tr><td>1</td><td>Remote control channel 1</td></tr><tr><td>2</td><td>Remote control channel 2</td></tr></table> <p>The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.</p>								Parameter	Meaning	1	Remote control channel 1	2	Remote control channel 2			
Parameter	Meaning																
1	Remote control channel 1																
2	Remote control channel 2																
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."																
Description	This command is used to set the channel of the remote control used at the projector end to 1 or 2.																
	<p>-1 It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 This command is identical to the Remote control function in the System settings menu.</p> <table><tr><th>Model</th><th>Menu</th></tr><tr><td>SX50</td><td>[System settings] - [Remote control]</td></tr><tr><td>SX7</td><td></td></tr><tr><td>SX60</td><td>[System settings] - [Other settings] - [Remote control]</td></tr><tr><td>X700</td><td></td></tr></table> <p>-3 The current remote control setting can be acquired using the applicable GET command. For details, refer to the GET command.</p>								Model	Menu	SX50	[System settings] - [Remote control]	SX7		SX60	[System settings] - [Other settings] - [Remote control]	X700
Model	Menu																
SX50	[System settings] - [Remote control]																
SX7																	
SX60	[System settings] - [Other settings] - [Remote control]																
X700																	
Example	Setting																
	<p>&gt; RCCH=1    </p>																

## Supported Command States

Appendix 100 Remote Control Status															
Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GUIDE				Mode	Control	Setting	Reference						
Function	Guide setting													
Format	GUIDE=<Guide setting parameter:ID>													
Parameter	<table border="1"><thead><tr><th>Parameter</th><th>Meaning</th></tr></thead><tbody><tr><td>ON</td><td>Guide display ON</td></tr><tr><td>OFF</td><td>Guide display OFF</td></tr></tbody></table> <p>The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.</p>							Parameter	Meaning	ON	Guide display ON	OFF	Guide display OFF	ID
Parameter	Meaning													
ON	Guide display ON													
OFF	Guide display OFF													
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."													
Description	<p>This command is used to set the guide function display to ON or OFF.</p> <p>(1) It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTDRV command and FCONTDRV command. )</p> <p>(2) This command functions in the same way as when "System settings" - "Guide" are selected on the menu. However, the guide is cleared immediately when "GUIDE=OFF" is received while the guide is displayed.</p> <p>(3) The current guide setting can be obtained using the GET command. For details, refer to the GET command.</p>													
Example	<p>Setting</p> <p>&gt; GUIDE=ON    </p>													

## Supported Command States

Model	Power supply			Input										Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local		
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SX7	x		x											x		
SX60																
X700																

\*If a state is not supported, "INVALID.MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	DPON				Mode	Control	Setting	Reference						
Function	Direct power-on setting													
Format	DPON=<Direct power-on setting parameter:ID>													
Parameter	Direct power-on setting parameters <table border="1"><thead><tr><th>Parameter</th><th>Meaning</th></tr></thead><tbody><tr><td>ON</td><td>This sets direct power-on to ON.</td></tr><tr><td>OFF</td><td>This sets direct power-on to OFF.</td></tr></tbody></table> <p>The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.</p>							Parameter	Meaning	ON	This sets direct power-on to ON.	OFF	This sets direct power-on to OFF.	ID
Parameter	Meaning													
ON	This sets direct power-on to ON.													
OFF	This sets direct power-on to OFF.													
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."													
Description	<p>This command is used to set direct power-on function to ON or OFF.</p> <p>(1) It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTDRV command and FCONTDRV command. )</p> <p>(2) This command functions in the same way as when "System settings" - "Direct power-on" are selected on the menu.</p> <p>(3) Direct power-on cannot be set to ON when "OFF" has been selected as the power management setting. ("e:1004 POWER_MANAGEMENT_OFF" is returned.)</p> <p>(5) The current direct power-on setting can be obtained using the GET command. For details, refer to the GET command.</p>													
Example	<p>Setting</p> <p>&gt; DPON=ON                                  Direct power-on is set to ON.</p> <p>&lt; i:OK</p> <p>Reference</p> <p>&gt; GET DPON or ?DPON                  The current direct power-on setting is obtained.</p> <p>&lt; g:DPON=ON</p> <p>Acquisition of parameters which can be set</p> <p>&gt; RANGE DPON</p> <p>&lt; r:DPON=I,ON,OFF                  "ON" or "OFF" can be set for direct power-on.</p> <p>*Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>													
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**										
	x													
When a command is not supported, "e:0002 INVALID_COMMAND" is returned.														

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID.MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

[illegible]

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Commands	ZSTEPDRV				Mode	Control	Setting	Reference						
Function	Zoom lens step drive control													
Format	ZSTEPDRV=<Zoom lens step control parameter:ID>													
Parameter	<div>Zoom lens step control parameters</div> <table><tr><th>Parameter</th><th>Meaning</th></tr><tr><td>WIDE</td><td>This zooms to the wide-angle end.</td></tr><tr><td>TELE</td><td>This zooms to the telephoto end.</td></tr></table> <p>The parameters which can be set at any given point in time can be obtained using the RANGE command.</p> <p>For details, refer to the RANGE command.</p>							Parameter	Meaning	WIDE	This zooms to the wide-angle end.	TELE	This zooms to the telephoto end.	ID
Parameter	Meaning													
WIDE	This zooms to the wide-angle end.													
TELE	This zooms to the telephoto end.													
Response	"i:OK" is returned when zooming was completed successfully after step drive. For all other responses, refer to "Error List."													
Description	<p>This command is used to initiate the step drive of the zoom lens.</p> <p>(1) It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTRDV command and FCONTRDV command. )</p> <p>(2) This command functions in the same way as when first the "ZOOM" button on the remote control or main unit panel is pressed and then the " " or " " button is pressed.</p> <p>(3) The amount by which the lens is zoomed is constant, and it is fixed in the system.</p> <p>(4) If a zooming error occurs, step drive cannot be controlled.</p>													
Example	<p>Control</p> <p>&gt; ZSTEPDRV=TELE                      1-step control is exercised over the zoom toward the TELE end.</p> <p>&lt; i:OK</p> <p>Range acquisition</p> <p>&gt; RANGE ZSTEPDRV</p> <p>&lt; r:ZSTEPDRV=l, WIDE, TELE      "WIDE" or "TELE" can be set as the step control of the zoom.</p>													
Commands supported	SX50 01.00** x	SX7 01.01**	SX60 01.01**	X700 01.01**										
When a command is not supported, "e:0002 INVALID COMMAND" is returned.														

## Supported Command States

Support Command States																
Model	Power supply			Input										Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local		
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SX7	x		x													
SX60																
X700																

\*If a state is not supported, "INVALID MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

### Supported Command States

\*If a state is not supported, "INVALID MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

### Supported Command States

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

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Commands	FCONTDRV				Mode	Control	Setting	Reference							
Function	Focus lens continuous drive control														
Format	FCONTDRV=<Focus lens continuous control parameter:ID>														
Parameter	Focus lens continuous control parameters						ID								
<table><tr><th>Parameter</th><th>Meaning</th></tr><tr><td>STOP</td><td>This stops the focusing.</td></tr><tr><td>FAR</td><td>This initiates focusing toward the far end.</td></tr><tr><td>NEAR</td><td>This initiates focusing toward the near end.</td></tr></table>						Parameter			Meaning	STOP	This stops the focusing.	FAR	This initiates focusing toward the far end.	NEAR	This initiates focusing toward the near end.
Parameter	Meaning														
STOP	This stops the focusing.														
FAR	This initiates focusing toward the far end.														
NEAR	This initiates focusing toward the near end.														
The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.															
Response	"i:OK" is returned when the drive was completed successfully. For all other responses, refer to "Error List."														
Description	<p>This command is used to drive the focus lens.</p> <p>(1) It can be executed when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, only the "STOP" parameter takes effect while the focus lens is being driven, and a "busy" response is given while the zoom lens is being driven. ( Refer to the ZCONTDRV command and FCONTDRV command. )</p> <p>(2) This command functions in the same way as when first the "FOCUS" button on the remote control or main unit panel is pressed and then the " " or " " button is pressed.</p> <p>(3) Focus drive is started by specifying "NEAR" or "FAR." To stop the drive, add the "STOP" parameter and send this command. If no instruction was given to stop the drive, the drive stops at the drive direction end.</p> <p>(4) The following commands are acknowledged during focus drive, but focus drive will also stop at the same time. In the case of any other commands, "i:BUSY (FOCUS)" is returned <b>unconditionally</b>, and focus drive continues.</p> <p>a. REMOTE b. LOCAL c. POWER d. FCONTDRV=STOP</p> <p>(5) The following commands are acknowledged during focus drive, and a response is returned while the drive continues.</p> <p>a. GET MODE b. GET POWER c. GET ERR d. GET LAMPCOUNTER e. GET PRODCODE f. GET ROMVER g. GET COMVER</p> <p>(6) Focus drive stops when the "POWER" button on the remote control or main unit panel is pressed during focus drive.</p>														
Example	<p>Control</p> <p>&gt; FCONTDRV=NEAR &lt; i:OK</p> <p>Control over the focusing to the near end is started.</p> <p>Range acquisition</p> <p>&gt; RANGE FCONTDRV &lt; r:FCONTDRV=i, STOP, FAR, NEAR</p> <p>"STOP," "FAR" or "NEAR" can be set for focus lens continuous drive.</p>														
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**											
When a command is not supported, "e:0002 INVALID.COMMAND" is returned.															

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID.MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RC	Mode	Control	Setting	Reference																																																																																																																																																																																																																																																																																											
Function	Remote control operation emulate																																																																																																																																																																																																																																																																																															
Format	RC <Remote control emulation button parameters:ID>																																																																																																																																																																																																																																																																																															
Parameter	Remote control emulation button parameters																																																																																																																																																																																																																																																																																															
	The key assignment for the remote control emulation buttons is as follows.																																																																																																																																																																																																																																																																																															
	<table><tr><th rowspan="2">Remote control button</th><th rowspan="2">Parameter</th><th colspan="4">Errors supported by model</th><th rowspan="2">Remarks</th></tr><tr><th>SX50</th><th>SX7</th><th>SX60</th><th>X700</th></tr><tr><td>POWER</td><td>POWER</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>-</td><td>POWER_OFF</td><td></td><td></td><td></td><td></td><td>POWER button pressed twice</td></tr><tr><td>MENU</td><td>MENU</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>AUTO SET</td><td>AUTOSET</td><td>x</td><td></td><td></td><td></td><td></td></tr><tr><td>COMPUTER1</td><td>COMPUTER1</td><td></td><td>x</td><td>x</td><td>x</td><td></td></tr><tr><td>COMPUTER2</td><td>COMPUTER2</td><td></td><td>x</td><td>x</td><td>x</td><td></td></tr><tr><td>VIDEO</td><td>VIDEO</td><td></td><td>x</td><td>x</td><td>x</td><td></td></tr><tr><td>INPUT</td><td>INPUT</td><td>x</td><td></td><td></td><td></td><td></td></tr><tr><td>AUTOPC</td><td>AUTOPC</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>KEystone</td><td>KESTONE</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td rowspan="2">UP</td><td>UP</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>UP+REP</td><td>x</td><td></td><td></td><td></td><td>Button press start</td></tr><tr><td rowspan="2">DOWN</td><td>DOWN</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>DOWN+REP</td><td>x</td><td></td><td></td><td></td><td>Button press start</td></tr><tr><td rowspan="2">LEFT</td><td>LEFT</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>LEFT+REP</td><td>x</td><td></td><td></td><td></td><td>Button press start</td></tr><tr><td rowspan="2">RIGHT</td><td>RIGHT</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>RIGHT+REP</td><td>x</td><td></td><td></td><td></td><td>Button press start</td></tr><tr><td>OK</td><td>OK</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>R_CLICK</td><td>R_CLICK</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td rowspan="2">PAGE</td><td>P_UP</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>P_UP+REP</td><td>x</td><td></td><td></td><td></td><td>Button press start</td></tr><tr><td rowspan="2">PAGE</td><td>P_DOWN</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>P_DOWN+REP</td><td>x</td><td></td><td></td><td></td><td>Button press start</td></tr><tr><td>IMAGE</td><td>IMAGE</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>FREEZE</td><td>FREEZE</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>VOL +</td><td>VOL_P</td><td></td><td>x</td><td>x</td><td>x</td><td></td></tr><tr><td>VOL -</td><td>VOL_M</td><td></td><td>x</td><td>x</td><td>x</td><td></td></tr><tr><td>VOL</td><td>VOL</td><td>x</td><td></td><td></td><td></td><td></td></tr><tr><td>NOSHOW</td><td>NOSHOW</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>MUTE</td><td>MUTE</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>P-TIMER</td><td>P_TIMER</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td rowspan="2">DZOOM +</td><td>DZOOM_P</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>DZOOM_P+REP</td><td>x</td><td></td><td></td><td></td><td>Button press start</td></tr><tr><td rowspan="2">DZOOM_M</td><td>DZOOM_M</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>DZOOM_M+REP</td><td>x</td><td></td><td></td><td></td><td>Button press start</td></tr><tr><td>SPOT</td><td>SPOT</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>FOCUS</td><td>FOCUS</td><td>x</td><td></td><td></td><td></td><td></td></tr><tr><td>ZOOM</td><td>ZOOM</td><td>x</td><td></td><td></td><td></td><td></td></tr><tr><td>-</td><td>*-REP</td><td>x</td><td></td><td></td><td></td><td>Button press end</td></tr></table>					Remote control button	Parameter	Errors supported by model				Remarks	SX50	SX7	SX60	X700	POWER	POWER						-	POWER_OFF					POWER button pressed twice	MENU	MENU						AUTO SET	AUTOSET	x					COMPUTER1	COMPUTER1		x	x	x		COMPUTER2	COMPUTER2		x	x	x		VIDEO	VIDEO		x	x	x		INPUT	INPUT	x					AUTOPC	AUTOPC						KEystone	KESTONE						UP	UP						UP+REP	x				Button press start	DOWN	DOWN						DOWN+REP	x				Button press start	LEFT	LEFT						LEFT+REP	x				Button press start	RIGHT	RIGHT						RIGHT+REP	x				Button press start	OK	OK						R_CLICK	R_CLICK						PAGE	P_UP						P_UP+REP	x				Button press start	PAGE	P_DOWN						P_DOWN+REP	x				Button press start	IMAGE	IMAGE						FREEZE	FREEZE						VOL +	VOL_P		x	x	x		VOL -	VOL_M		x	x	x		VOL	VOL	x					NOSHOW	NOSHOW						MUTE	MUTE						P-TIMER	P_TIMER						DZOOM +	DZOOM_P						DZOOM_P+REP	x				Button press start	DZOOM_M	DZOOM_M						DZOOM_M+REP	x				Button press start	SPOT	SPOT						FOCUS	FOCUS	x					ZOOM	ZOOM	x					-	*-REP	x				Button press end
	Remote control button	Parameter	Errors supported by model					Remarks																																																																																																																																																																																																																																																																																								
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	*Use the application to adjust the time between pressing of keys.																																																																																																																																																																																																																																																																																															

ID

<b>Response</b>	"i:OK" is returned when the button press request has been acknowledged successfully. (It does not indicate if the operation for the pressed button was executed properly.)						
<b>Description</b>	<p>This emulates pressing of the remote control buttons for controlling the projector.</p> <p>-1 It can only be used during Local mode.</p> <p>Note 1 With the emulation of the remote control operations, the functions of the buttons corresponding to the parameters cannot necessarily be executed. Emulation simply consists in emulating the pressing of the buttons.</p> <p>Note 2 The following functions are unavailable in remote control emulation. - USB mouse function - Function for transfer to special mode (service mode)</p> <p>Note 3 A parameter with '+REP' signifies "button press start." (This is the same as the status in which the remote control 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. &lt;1&gt; When a panel or remote control button has been operated &lt;2&gt; When an 'RC' or 'MAIN' command has been received &lt;3&gt; When operation has transferred to the remote mode</p>						
<b>Example</b>	<p>Setting</p> <p>&gt; RC POWER</p> <p>&lt; i:Ok</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>						
<b>Commands supported</b>	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50										—	—		×		
SX7													×		
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' is returned as an error response.

Commands	MAIN				Mode	Control	Setting	Reference																																																																																																																																																																	
Function	Front panel operation emulation																																																																																																																																																																								
Format	MAIN <Main unit panel emulation button parameters :ID>																																																																																																																																																																								
Parameter	Main unit panel emulation button parameters							ID																																																																																																																																																																	
	The key assignments for the front panel buttons are shown below.																																																																																																																																																																								
	<table><tr><th rowspan="2">Remote control button</th><th rowspan="2">Parameter</th><th colspan="4">Errors supported by model</th><th rowspan="2">Remarks</th></tr><tr><th>SX50</th><th>SX7</th><th>SX60</th><th>X700</th></tr><tr><td>POWER</td><td>POWER</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>—</td><td>POWER_OFF</td><td></td><td></td><td></td><td></td><td>POWER button pressed twice</td></tr><tr><td>MENU</td><td>MENU</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>AUTO SET</td><td>AUTOSET</td><td>x</td><td></td><td></td><td></td><td></td></tr><tr><td>COMPUTER1</td><td>COMPUTER1</td><td></td><td>x</td><td>x</td><td>x</td><td></td></tr><tr><td>COMPUTER2</td><td>COMPUTER2</td><td></td><td>x</td><td>x</td><td>x</td><td></td></tr><tr><td>VIDEO</td><td>VIDEO</td><td></td><td>x</td><td>x</td><td>x</td><td></td></tr><tr><td>INPUT</td><td>INPUT</td><td>x</td><td></td><td></td><td></td><td></td></tr><tr><td>AUTOPC</td><td>AUTOPC</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>KEYSTONE</td><td>KEYSTONE</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td rowspan="2">UP</td><td>UP</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>UP+REP</td><td>x</td><td></td><td></td><td></td><td>Button press start</td></tr><tr><td rowspan="2">DOWN</td><td>DOWN</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>DOWN+REP</td><td>x</td><td></td><td></td><td></td><td>Button press start</td></tr><tr><td rowspan="2">LEFT</td><td>LEFT</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>LEFT+REP</td><td>x</td><td></td><td></td><td></td><td>Button press start</td></tr><tr><td rowspan="2">RIGHT</td><td>RIGHT</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>RIGHT+REP</td><td>x</td><td></td><td></td><td></td><td>Button press start</td></tr><tr><td>OK</td><td>OK</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>FOCUS</td><td>FOCUS</td><td>x</td><td></td><td></td><td></td><td></td></tr><tr><td>ZOOM</td><td>ZOOM</td><td>x</td><td></td><td></td><td></td><td></td></tr><tr><td>—</td><td>*-REP</td><td>x</td><td></td><td></td><td></td><td>Button press end</td></tr></table>								Remote control button	Parameter	Errors supported by model				Remarks	SX50	SX7	SX60	X700	POWER	POWER						—	POWER_OFF					POWER button pressed twice	MENU	MENU						AUTO SET	AUTOSET	x					COMPUTER1	COMPUTER1		x	x	x		COMPUTER2	COMPUTER2		x	x	x		VIDEO	VIDEO		x	x	x		INPUT	INPUT	x					AUTOPC	AUTOPC						KEYSTONE	KEYSTONE						UP	UP						UP+REP	x				Button press start	DOWN	DOWN						DOWN+REP	x				Button press start	LEFT	LEFT						LEFT+REP	x				Button press start	RIGHT	RIGHT						RIGHT+REP	x				Button press start	OK	OK						FOCUS	FOCUS	x					ZOOM	ZOOM	x					—	*-REP	x				Button press end
	Remote control button	Parameter	Errors supported by model				Remarks																																																																																																																																																																		
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	MENU	MENU																																																																																																																																																																							
	AUTO SET	AUTOSET	x																																																																																																																																																																						
	COMPUTER1	COMPUTER1		x	x	x																																																																																																																																																																			
	COMPUTER2	COMPUTER2		x	x	x																																																																																																																																																																			
	VIDEO	VIDEO		x	x	x																																																																																																																																																																			
	INPUT	INPUT	x																																																																																																																																																																						
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—	*-REP	x				Button press end																																																																																																																																																																			
*Use the application to adjust the time between pressing of keys.																																																																																																																																																																									
Response	":i:OK" is returned when the button press request has been acknowledged successfully. (It does not indicate if the operation for the pressed button was executed properly.)																																																																																																																																																																								
Description	This emulates the pressing of the front panel buttons for controlling the projector.  -1 It can only be used during Local mode.  Note 1 With the emulation of the front panel operations, the functions of the buttons corresponding to the parameters cannot necessarily be executed. Emulation simply consists in emulating the pressing of the buttons.  Note 2 A parameter with '+REP' signifies "button press start." (This is the same as the status in which 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. <1> When a panel or remote control button has been operated <2> When an 'RC' or 'MAIN' command has been received <3> When operation has transferred to the remote mode																																																																																																																																																																								
Example	Setting > MAIN FOCUS < i:OK  * Commands are indicated by ">", and responses are indicated by "<".																																																																																																																																																																								
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**																																																																																																																																																																					

## Supported Command States

Model	Power			Input									Mode		Remarks	
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local		
SX50											—	—		x		
SX7														x		
SX60																
X700																

\* If a command cannot be supported, 'INVALID\_MODE' is returned as an error response.

Commands	GET	Mode	Control	Setting	Reference																																																																																																																																																																																
Function	Retrieve each data																																																																																																																																																																																				
Format	GET <Parameter> ? <Parameter>																																																																																																																																																																																				
Parameter	<table><thead><tr><th>Parameter</th><th colspan="2">Meaning</th></tr></thead><tbody><tr><td>MODE</td><td colspan="2">Mode</td></tr><tr><td>POWER</td><td colspan="2">Power supply state</td></tr><tr><td>BLANK</td><td colspan="2">BLANK status</td></tr><tr><td>INPUT</td><td colspan="2">Input state</td></tr><tr><td>DOTS</td><td rowspan="5">Input signal settings</td><td>Total dot number</td></tr><tr><td>TRACK</td><td>Tracking</td></tr><tr><td>HPOS</td><td>Horizontal position</td></tr><tr><td>VPOS</td><td>Vertical position</td></tr><tr><td>HPIX</td><td>Horizontal resolution</td></tr><tr><td>VPIX</td><td>Vertical resolution</td></tr><tr><td>SEL</td><td colspan="2">Input signal</td></tr><tr><td>ASPECT</td><td colspan="2">Screen size</td></tr><tr><td>IMAGE</td><td colspan="2">Image settings</td></tr><tr><td>BRI</td><td colspan="2">Brightness setting</td></tr><tr><td>CONT</td><td colspan="2">Contrast setting</td></tr><tr><td>SHARP</td><td colspan="2">Sharpness setting</td></tr><tr><td>GAMMA</td><td colspan="2">Gamma correction</td></tr><tr><td>DGAMMA</td><td colspan="2">Dynamic gamma</td></tr><tr><td>PROG</td><td colspan="2">Progressive</td></tr><tr><td>WB</td><td colspan="2">Screen color correction methods</td></tr><tr><td>WBRGB</td><td colspan="2">Screen color correction (RGB)</td></tr><tr><td>SAT</td><td colspan="2">Color saturation setting</td></tr><tr><td>HUE</td><td colspan="2">Hue setting</td></tr><tr><td>RGBGAIN</td><td colspan="2">RGB gain adjustment</td></tr><tr><td>RGBOFFSET</td><td colspan="2">RGB offset adjustment</td></tr><tr><td>ACADJUST</td><td colspan="2">Advanced color adjustment methods</td></tr><tr><td>MEMCADJ</td><td colspan="2">Memory color correction</td></tr><tr><td>6AXADJ</td><td colspan="2">6-axis adjustment ON/OFF</td></tr><tr><td>6AXR</td><td rowspan="5">6-axis color adjust</td><td>R Setting</td></tr><tr><td>6AXG</td><td>G Setting</td></tr><tr><td>6AXB</td><td>B Setting</td></tr><tr><td>6AXC</td><td>C Setting</td></tr><tr><td>6AXM</td><td>M Setting</td></tr><tr><td>6AXY</td><td>Y Setting</td></tr><tr><td>VKS</td><td colspan="2">Vertical keystone distortion values</td></tr><tr><td>HKS</td><td colspan="2">Horizontal keystone distortion values</td></tr><tr><td>AVOL</td><td colspan="2">Volume adjustment</td></tr><tr><td>MUTE</td><td colspan="2">Mute status</td></tr><tr><td>BVOL</td><td colspan="2">Beep sound setting status</td></tr><tr><td>IMAGEFLIP</td><td colspan="2">Flip display status</td></tr><tr><td>PMM</td><td colspan="2">Power management</td></tr><tr><td>PJON</td><td colspan="2">Display screen at startup setting</td></tr><tr><td>NOSIG</td><td colspan="2">Display screen when there are no signals setting</td></tr><tr><td>NOSHOW</td><td colspan="2">Display screen when nothing shown</td></tr><tr><td>LOGOPOS</td><td colspan="2">User image position</td></tr><tr><td>LANG</td><td colspan="2">Language</td></tr><tr><td>LAMP</td><td colspan="2">Lamp output</td></tr><tr><td>TERMINAL</td><td colspan="2">Terminal setting</td></tr><tr><td>KEYLOCK</td><td colspan="2">Key lock</td></tr><tr><td>RCCH</td><td colspan="2">Remote control Ch</td></tr><tr><td>GUIDE</td><td colspan="2">Guide display setting</td></tr><tr><td>DPON</td><td colspan="2">Direct power-on setting</td></tr><tr><td>LEDILLUMINATE</td><td colspan="2">LED display setting</td></tr><tr><td>NOSHOWSTATE</td><td colspan="2">No show status</td></tr><tr><td>FREEZE</td><td colspan="2">Freeze status</td></tr><tr><td>SIGNALSTATUS</td><td colspan="2">Signal status detection</td></tr><tr><td>LAMPCOUNTER</td><td colspan="2">Lamp on time</td></tr><tr><td>ERR</td><td colspan="2">Error information</td></tr><tr><td>PRODCODE</td><td colspan="2">Production code</td></tr><tr><td>ROMVER</td><td colspan="2">ROM version</td></tr><tr><td>COMVER</td><td colspan="2">User command version</td></tr></tbody></table>				Parameter	Meaning		MODE	Mode		POWER	Power supply state		BLANK	BLANK status		INPUT	Input state		DOTS	Input signal settings	Total dot number	TRACK	Tracking	HPOS	Horizontal position	VPOS	Vertical position	HPIX	Horizontal resolution	VPIX	Vertical resolution	SEL	Input signal		ASPECT	Screen size		IMAGE	Image settings		BRI	Brightness setting		CONT	Contrast setting		SHARP	Sharpness setting		GAMMA	Gamma correction		DGAMMA	Dynamic gamma		PROG	Progressive		WB	Screen color correction methods		WBRGB	Screen color correction (RGB)		SAT	Color saturation setting		HUE	Hue setting		RGBGAIN	RGB gain adjustment		RGBOFFSET	RGB offset adjustment		ACADJUST	Advanced color adjustment methods		MEMCADJ	Memory color correction		6AXADJ	6-axis adjustment ON/OFF		6AXR	6-axis color adjust	R Setting	6AXG	G Setting	6AXB	B Setting	6AXC	C Setting	6AXM	M Setting	6AXY	Y Setting	VKS	Vertical keystone distortion values		HKS	Horizontal keystone distortion values		AVOL	Volume adjustment		MUTE	Mute status		BVOL	Beep sound setting status		IMAGEFLIP	Flip display status		PMM	Power management		PJON	Display screen at startup setting		NOSIG	Display screen when there are no signals setting		NOSHOW	Display screen when nothing shown		LOGOPOS	User image position		LANG	Language		LAMP	Lamp output		TERMINAL	Terminal setting		KEYLOCK	Key lock		RCCH	Remote control Ch		GUIDE	Guide display setting		DPON	Direct power-on setting		LEDILLUMINATE	LED display setting		NOSHOWSTATE	No show status		FREEZE	Freeze status		SIGNALSTATUS	Signal status detection		LAMPCOUNTER	Lamp on time		ERR	Error information		PRODCODE	Production code		ROMVER	ROM version		COMVER	User command version		ID
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ID

Commands	GET MODE				Mode	Control	Setting	Reference					
Function	Current control mode inquiry												
Format	GET MODE ? MODE												
Response	g:MODE=<Mode:ID> <table border="1"><thead><tr><th>Mode</th><th>Meaning</th></tr></thead><tbody><tr><td>LOCAL</td><td>The local mode is currently established.</td></tr><tr><td>REMOTE</td><td>The remote mode is currently established.</td></tr></tbody></table> For all other responses, refer to "Error List."						Mode	Meaning	LOCAL	The local mode is currently established.	REMOTE	The remote mode is currently established.	ID
Mode	Meaning												
LOCAL	The local mode is currently established.												
REMOTE	The remote mode is currently established.												
Description	<p>This inquires about the current control mode.</p> <p>-1 For details on the control modes of the user commands, refer to the control mode.</p> <p>-2 This inquiry can be executed in any status provided that AC power is supplied to the projector.</p> <p>-3 The control mode is usually switched by REMOTE command-LOCAL command, but when the next event occurs in the remote status, the mode is switched to the <b>local</b> status.</p> <p>a. When the POWER button on the remote control or main unit panel has been pressed twice (power off operation)</p> <p>b. When the power management mode has been established (standby, power off)</p>												
Example	> GET MODE or ?MODE < g:MODE=REMOTE  * Commands are indicated by ">", and responses are indicated by "<".												
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**									

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50										—	—				
SX7															
SX60															
X700															

Commands				GET POWER				Mode	Control	Setting	Reference																
Function		Power status inquiry																									
Format		GET POWER ? POWER																									
Response		<div><div>g:POWER=&lt;Power status: ID&gt;</div><table><thead><tr><th>Power supply state</th><th>Status</th></tr></thead><tbody><tr><td>OFF</td><td>Power Off</td></tr><tr><td>OFF2ON</td><td>Transitioning from power off on</td></tr><tr><td>ON</td><td>Power on</td></tr><tr><td>ON2PMM</td><td>Transitioning from power on standby mode</td></tr><tr><td>PMM</td><td>Standby</td></tr><tr><td>PMM2ON</td><td>Transitioning from standby power on</td></tr><tr><td>ON2OFF</td><td>Transitioning from power on off</td></tr></tbody></table></div> <div>For all other responses, refer to "Error List."</div>								Power supply state	Status	OFF	Power Off	OFF2ON	Transitioning from power off on	ON	Power on	ON2PMM	Transitioning from power on standby mode	PMM	Standby	PMM2ON	Transitioning from standby power on	ON2OFF	Transitioning from power on off	ID	
Power supply state	Status																										
OFF	Power Off																										
OFF2ON	Transitioning from power off on																										
ON	Power on																										
ON2PMM	Transitioning from power on standby mode																										
PMM	Standby																										
PMM2ON	Transitioning from standby power on																										
ON2OFF	Transitioning from power on off																										
Description		<div>This inquires about the current projector power status.</div> <div><div>-1 This inquiry can be executed in any status provided that AC power is supplied to the projector. For the "SX50," the <b>remote mode</b> must be established.</div><div>-2 Use the following commands to control the power status with the user commands.</div><table><thead><tr><th>Mode</th><th>Commands</th></tr></thead><tbody><tr><td>Local</td><td>RC POWER/POWER_OFF MAIN POWER/POWER_OFF</td></tr><tr><td>Remote</td><td>POWER ON/OFF</td></tr></tbody></table></div>										Mode	Commands	Local	RC POWER/POWER_OFF MAIN POWER/POWER_OFF	Remote	POWER ON/OFF										
Mode	Commands																										
Local	RC POWER/POWER_OFF MAIN POWER/POWER_OFF																										
Remote	POWER ON/OFF																										
Example		<div>&gt; GET POWER or ?POWER</div> <div>&lt; g:POWER=ON</div> <div>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</div>																									
Commands supported		SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**																						

Supported Command States

Supported Commands Status															
Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50											—	—		x	
SX7															
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' is returned as an error response.

Commands	GET BLANK				Mode	Control	Setting	Reference						
Function	BLANK status inquiry													
Format	GET BLANK ? BLANK													
Response	<p>g:BLANK=&lt;BLANK status:ID&gt;</p> <table border="1"><thead><tr><th>BLANK status</th><th>Status</th></tr></thead><tbody><tr><td>ON</td><td>BLANK underway</td></tr><tr><td>OFF</td><td>BLANK release underway</td></tr></tbody></table> <p>For all other responses, refer to "Error List."</p>							BLANK status	Status	ON	BLANK underway	OFF	BLANK release underway	ID
BLANK status	Status													
ON	BLANK underway													
OFF	BLANK release underway													
Description	<p>This command is used to inquire about the current BLANK status.</p> <p>(1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time.</p> <p>However, a "busy" response is given while the zoom or focus lens is being driven.</p> <p>( Refer to the ZCONTRV command and FCONTRV command. )</p> <p>(2) The BLANK setting can be controlled using the BLANK command.</p>													
Example	<p>&gt; GET BLANK or ? BLANK &lt; g:BLANK=ON</p> <p>*Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>													
Commands supported	SX50 01.00** x	SX7 01.01**	SX60 01.01**	X700 01.01**										
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.														

## Supported Command States

Supported Command States																
Model	Power supply			Input										Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local		
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SX7	x		x											x		
SX60																
X700																

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.



Commands	GET INPUT				Mode	Control	Setting	Reference																																																										
Function	Input selection inquiry																																																																	
Format	GET INPUT ? INPUT																																																																	
Response	<div><div>g:INPUT=&lt;Input type: ID&gt;</div><table><thead><tr><th rowspan="2">Input type</th><th rowspan="2">Meaning</th><th colspan="4">Errors supported by model</th></tr><tr><th>SX50</th><th>SX6</th><th>SX60</th><th>X600</th></tr></thead><tbody><tr><td>D-RGB</td><td>D-RGB</td><td></td><td></td><td></td><td></td></tr><tr><td>A-RGB1</td><td>A-RGB1</td><td></td><td></td><td></td><td></td></tr><tr><td>A-RGB2</td><td>A-RGB2</td><td></td><td></td><td></td><td></td></tr><tr><td>COMP</td><td>Component</td><td></td><td></td><td></td><td></td></tr><tr><td>VIDEO</td><td>Video</td><td></td><td></td><td></td><td></td></tr><tr><td>S-VIDEO</td><td>S-Video</td><td></td><td></td><td></td><td></td></tr><tr><td>D-VIDEO</td><td>Digital Video</td><td>x</td><td></td><td></td><td></td></tr><tr><td>SCARTRGB</td><td>SCART(RGB)</td><td>x</td><td></td><td></td><td></td></tr></tbody></table></div> <div>ID</div>							Input type	Meaning	Errors supported by model				SX50	SX6	SX60	X600	D-RGB	D-RGB					A-RGB1	A-RGB1					A-RGB2	A-RGB2					COMP	Component					VIDEO	Video					S-VIDEO	S-Video					D-VIDEO	Digital Video	x				SCARTRGB	SCART(RGB)	x				
Input type	Meaning	Errors supported by model																																																																
		SX50	SX6	SX60	X600																																																													
D-RGB	D-RGB																																																																	
A-RGB1	A-RGB1																																																																	
A-RGB2	A-RGB2																																																																	
COMP	Component																																																																	
VIDEO	Video																																																																	
S-VIDEO	S-Video																																																																	
D-VIDEO	Digital Video	x																																																																
SCARTRGB	SCART(RGB)	x																																																																
For all other responses, refer to "Error List."																																																																		
Description	<p>This inquires about the current input selection.</p> <p>-1 This inquiry can be made in the <b>power-on</b> status. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) With the SX50, the inquiry can be made in the remote mode only.</p> <p>-2 The input selection can be controlled by the INPUT command.</p>																																																																	
Example	<p>&gt; GET INPUT or ? INPUT &lt; g:INPUT=VIDEO</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>																																																																	
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**																																																														

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x								—	—		x	
SX7	x		x												
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET DOTS	Mode	Control	Setting	Reference
Function	Total number of dots inquiry				
Format	GET DOTS ? DOTS				
Response	g:DOTS=<Total number of dots: Number>  For all other responses, refer to "Error List."				Number
Description	This inquires about the current total number of dots.  -1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) With some input signals, it may not be possible to make this inquiry. -2 The total number of dots can be set by the DOTS command.				
Example	> GET DOTS or ? DOTS < g:DOTS=1200  * Commands are indicated by ">", and responses are indicated by "<".				
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**	

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x	x			x	x	x	—	—	x		x	
SX7	x		x	x			x	x	x	x	x	x		x	
SX60															
X700															

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET TRACK	Mode	Control	Setting	Reference
Function	Tracking adjustment value inquiry				
Format	GET TRACK ? TRACK				
Response	g:TRACK=<Tracking adjustment value: Number>  For all other responses, refer to "Error List."				Number
Description	<p>This inquires about the current tracking adjustment value.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) With some input signals, it may not be possible to make this inquiry.</p> <p>-2 The tracking adjustment can be set by the TRACK command.</p>				
Example	<p>&gt; GET TRACK or ? TRACK &lt; g:TRACK=21</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>				
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**	

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x	x			x	x	x	—	—	x		x	
SX7	x		x	x			x	x	x	x	x	x		x	
SX60															
X700															

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands		GET HPOS/VPOS		Mode	Control	Setting	Reference
Function	Horizontal and vertical position adjustment inquiries						
Format	<div>Horizontal position adjustment inquiry</div> <div>GET HPOS</div> <div>? HPOS</div> <div>Vertical position adjustment inquiry</div> <div>GET VPOS</div> <div>? VPOS</div>						
Response	<b>g:HPOS=&lt;Horizontal position adjustment value: Number&gt;</b> <b>g:VPOS=&lt;Vertical position adjustment value: Number&gt;</b>  For all other responses, refer to "Error List."						Number
Description	These inquire about the current horizontal and vertical position adjustment values.  -1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) With some input signals, it may not be possible to make this inquiry. -2 The horizontal and vertical position adjustments can be set using the HPOS and VPOS commands respectively.						
Example	> GET VPOS or ? VPOS < g:VPOS=8  * Commands are indicated by ">", and responses are indicated by "<".						
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**			

## Supported Command States

[illegible]

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET HPIX/VPIX				Mode	Control	Setting	Reference
Function	Horizontal and vertical resolution inquiries							
Format	<div>Horizontal resolution inquiry</div> <div>Vertical resolution inquiry</div> <div>GET HPIX                      GET VPIX</div> <div>? HPIX                        ? VPIX</div>							
Response	g:HPIX=<Horizontal resolution: Number> g:VPIX=<Vertical resolution: Number>  For all other responses, refer to "Error List."							Number
Description	These inquire about the current horizontal and vertical resolutions.  -1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) With some input signals, it may not be possible to make this inquiry. -2 The horizontal and vertical resolutions can be set using the HPIX and VPIX commands, respectively.							
Example	> GET VPIX or ? VPIX < g:VPIX=684  * Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x				x	x	x	—	—	x		x	
SX7	x		x				x	x	x	×	x	x		x	
SX60															
X700															

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET SEL				Mode	Control	Setting	Reference																								
Function	Input signal inquiry																															
Format	GET SEL ? SEL																															
Response	<div>g:SEL=&lt;Input signal: ID&gt;</div> <table><thead><tr><th>Input signal</th><th>Remarks</th></tr></thead><tbody><tr><td>PAL</td><td>PAL-M,PAL-N included</td></tr><tr><td>SECAM</td><td></td></tr><tr><td>NTSC</td><td>NTSC4.43 included</td></tr><tr><td>1080i</td><td>540p (1080i non-interlaced signals) included</td></tr><tr><td>1035i</td><td></td></tr><tr><td>720p</td><td></td></tr><tr><td>575p</td><td></td></tr><tr><td>480p</td><td></td></tr><tr><td>575i</td><td>288p (PAL system non-interlaced signals) included</td></tr><tr><td>480i</td><td>240p (NTSC system non-interlaced signals) included</td></tr><tr><td>UNKNOWN</td><td>No-color, 1080p, and other signals</td></tr></tbody></table> <div>For all other responses, refer to "Error List."</div>							Input signal	Remarks	PAL	PAL-M,PAL-N included	SECAM		NTSC	NTSC4.43 included	1080i	540p (1080i non-interlaced signals) included	1035i		720p		575p		480p		575i	288p (PAL system non-interlaced signals) included	480i	240p (NTSC system non-interlaced signals) included	UNKNOWN	No-color, 1080p, and other signals	ID
Input signal	Remarks																															
PAL	PAL-M,PAL-N included																															
SECAM																																
NTSC	NTSC4.43 included																															
1080i	540p (1080i non-interlaced signals) included																															
1035i																																
720p																																
575p																																
480p																																
575i	288p (PAL system non-interlaced signals) included																															
480i	240p (NTSC system non-interlaced signals) included																															
UNKNOWN	No-color, 1080p, and other signals																															
Description	<p>This inquires about the current input signals.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) With some input signals, it may not be possible to make this inquiry.</p> <p>-2 The input signals can be selected by the SEL command.</p>																															
Example	<p>&gt; GET SEL or ? SEL &lt; g:SEL=575p</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>																															
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**																												

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x	x	x	x				—	—	x		x	
SX7	x		x	x	x	x				x	x	x		x	
SX60															
X700															

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET ASPECT				Mode	Control	Setting	Reference			
Function	Screen setting inquiry										
Format	GET ASPECT ? ASPECT										
Response	g:ASPECT=<Screen setting:ID>						ID				
		Parameter		Meaning		Errors supported by model					
						SX50			SX6	SX60	X600
		AUTO		Auto							
		NORMAL		Normal					—	—	—
		WIDE		Wide							
		FULL		Full screen							
		TRUE		Real							
For all other responses, refer to "Error List."											
Description	This inquires about the current screen setting.  -1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) With some input signals, it may not be possible to make this inquiry. -2 The screen settings can be selected by the ASPECT command.										
Example	> GET ASPECT or ? ASPECT < g:ASPECT=TRUE  * Commands are indicated by ">", and responses are indicated by "<".										
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**							

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x								—	—		x	
SX7	x		x											x	
SX60															
X700															

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET IMAGE	Mode	Control	Setting	Reference																																																										
Function	Image mode inquiry																																																														
Format	GET IMAGE ? IMAGE																																																														
Response	g:IMAGE=<Image mode:ID> <table border="1"> <thead> <tr> <th rowspan="2">Parameter</th><th rowspan="2">Meaning</th><th colspan="4">Errors supported by model</th></tr> <tr> <th>SX50</th><th>SX6</th><th>SX60</th><th>X600</th></tr> </thead> <tbody> <tr> <td>STANDARD</td><td>Standard</td><td></td><td></td><td></td><td></td></tr> <tr> <td>PRESENTATION</td><td>Presentation</td><td></td><td></td><td></td><td></td></tr> <tr> <td>CINEMA</td><td>Cinema</td><td></td><td>x</td><td>x</td><td>x</td></tr> <tr> <td>SRGB</td><td>sRGB</td><td></td><td></td><td></td><td></td></tr> <tr> <td>ADOBE</td><td>ADOBE RGB</td><td>x</td><td></td><td>x</td><td>x</td></tr> <tr> <td>MOVIE</td><td>Movie</td><td>x</td><td>x</td><td></td><td></td></tr> <tr> <td>MOVIE_PHOTO</td><td>Movie &amp; Photo</td><td>x</td><td></td><td>x</td><td>x</td></tr> <tr> <td>HOME_CINEMA</td><td>Home theater</td><td>x</td><td>x</td><td></td><td>x</td></tr> </tbody> </table> ID <p>For all other responses, refer to "Error List."</p>					Parameter	Meaning	Errors supported by model				SX50	SX6	SX60	X600	STANDARD	Standard					PRESENTATION	Presentation					CINEMA	Cinema		x	x	x	SRGB	sRGB					ADOBE	ADOBE RGB	x		x	x	MOVIE	Movie	x	x			MOVIE_PHOTO	Movie & Photo	x		x	x	HOME_CINEMA	Home theater	x	x		x
Parameter	Meaning	Errors supported by model																																																													
		SX50	SX6	SX60	X600																																																										
STANDARD	Standard																																																														
PRESENTATION	Presentation																																																														
CINEMA	Cinema		x	x	x																																																										
SRGB	sRGB																																																														
ADOBE	ADOBE RGB	x		x	x																																																										
MOVIE	Movie	x	x																																																												
MOVIE_PHOTO	Movie & Photo	x		x	x																																																										
HOME_CINEMA	Home theater	x	x		x																																																										
Description	This inquires about the current image mode.  -1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 The image mode settings can be selected by the IMAGE command.																																																														
Example	> GET IMAGE or ? IMAGE < g:IMAGE=CINEMA  * Commands are indicated by ">", and responses are indicated by "<".																																																														
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**																																																											

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.



Commands	GET BRI	Mode	Control	Setting	Reference
Function	Brightness value setting inquiry				
Format	GET BRI ? BRI				
Response	g:BRI=<Brightness;Number>  For all other responses, refer to "Error List."				Number
Description	<p>This inquires about the current brightness value setting.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The brightness can be set by the BRI command.</p>				
Example	<p>&gt; GET BRI or ? BRI &lt; g:BRI=-10</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>				
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**	

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET CONT	Mode	Control	Setting	Reference
Function	Contrast value setting inquiry				
Format	GET CONT ? CONT				
Response	g:CONT=<Contrast value: Number>  For all other responses, refer to "Error List."				Number
Description	<p>This inquires about the current contrast value setting.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The contrast can be set by the CONT command.</p>				
Example	<p>&gt; GET CONT or ? CONT &lt; g:CONT=3</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>				
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**	

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET SHARP	Mode	Control	Setting	Reference
Function	Sharpness value setting inquiry				
Format	GET SHARP ? SHARP				
Response	g;SHARP=<Sharpness setting: Number>  For all other responses, refer to "Error List."				Number
Description	<p>This inquires about the current sharpness value setting.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The sharpness can be set by the SHARP command.</p>				
Example	<p>&gt; GET SHARP or ? SHARP &lt; g:SHARP=3</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>				
Commands supported	SX50 01.01**	SX7 01.01**	SX60 01.01**	X700 01.01**	

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET GAMMA	Mode	Control	Setting	Reference
Function	Gamma adjustment value inquiry				
Format	GET GAMMA ? GAMMA				
Response	g:GAMMA=<Gamma adjustment value;Number>  For all other responses, refer to "Error List."				Number
Description	<p>This inquires about the current gamma adjustment value.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The gamma adjustment value can be set by the GAMMA command.</p>				
Example	<p>&gt; GET GAMMA or ? GAMMA &lt; g:GAMMA=3</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>				
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**	

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET DGAMMA				Mode	Control	Setting	Reference						
Function	Dynamic gamma value setting inquiry													
Format	GET DGAMMA ? DGAMMA													
Response	<div>g:DGAMMA=&lt;Setting: ID&gt;</div> <table><tr><th>Setting</th><th>Meaning</th></tr><tr><td>0</td><td>Off</td></tr><tr><td>1</td><td>On</td></tr></table> <div>For all other responses, refer to "Error List."</div>							Setting	Meaning	0	Off	1	On	ID
Setting	Meaning													
0	Off													
1	On													
Description	<p>This inquires about the current dynamic gamma value setting.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The dynamic gamma setting value can be selected by the DGAMMA command.</p>													
Example	<p>&gt; GET DGAMMA or ? DGAMMA &lt; g:DGAMMA=1</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>													
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**										

Supported Command States

Supported Commands Status															
Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x								-	-		x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET PROG				Mode	Control	Setting	Reference																												
Function	Progressive value setting inquiry																																			
Format	GET PROG ? PROG																																			
Response	g:PROG=<Set (status) value: ID> <table border="1"><thead><tr><th rowspan="2">Response</th><th rowspan="2">Meaning</th><th colspan="4">Errors supported by model</th></tr><tr><th>SX50</th><th>SX6</th><th>SX60</th><th>X600</th></tr></thead><tbody><tr><td>0</td><td>Off</td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>On</td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td>AUTO</td><td>x</td><td></td><td></td><td></td></tr></tbody></table> <p>For all other responses, refer to "Error List."</p>							Response	Meaning	Errors supported by model				SX50	SX6	SX60	X600	0	Off					1	On					2	AUTO	x				ID
Response	Meaning	Errors supported by model																																		
		SX50	SX6	SX60	X600																															
0	Off																																			
1	On																																			
2	AUTO	x																																		
Description	<p>This inquires about the current progressive (status) value set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time.</p> <p>A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>With some input signals, it may not be possible to make this inquiry.</p> <p>-2 The significance of the response differs slightly depending on the model concerned.</p> <table border="1"><thead><tr><th>Model</th><th>Significance of response</th></tr></thead><tbody><tr><td>SX50</td><td>Regardless of the progressive setting, "ON" is indicated when the current progressive conversion processing function is working; "OFF" is indicated when the processing function is not working.</td></tr><tr><td>SX6 SX60 X600</td><td>This signifies the progressive value setting.</td></tr></tbody></table> <p>-3 The progressive setting can be selected by the PROG command.</p>								Model	Significance of response	SX50	Regardless of the progressive setting, "ON" is indicated when the current progressive conversion processing function is working; "OFF" is indicated when the processing function is not working.	SX6 SX60 X600	This signifies the progressive value setting.																						
Model	Significance of response																																			
SX50	Regardless of the progressive setting, "ON" is indicated when the current progressive conversion processing function is working; "OFF" is indicated when the processing function is not working.																																			
SX6 SX60 X600	This signifies the progressive value setting.																																			
Example	<p>&gt; GET PROG or ? PROG</p> <p>&lt; g:PROG=1</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>																																			
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**																																

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x	x	x	x				—	—	x		x	
SX7	x		x	x	x	x				x	x	x		x	
SX60															
X700															

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET WB				Mode	Control	Setting	Reference								
Function	Screen color correction inquiry															
Format	GET WB ? WB															
Response	g:WB=<Screen color correction value: ID> <table border="1"><thead><tr><th>Response</th><th>Meaning</th></tr></thead><tbody><tr><td>NORMAL</td><td>Normal</td></tr><tr><td>GREENBOARD</td><td>Blackboard</td></tr><tr><td>ADJUST</td><td>Adjust</td></tr></tbody></table> For all other responses, refer to "Error List."						Response	Meaning	NORMAL	Normal	GREENBOARD	Blackboard	ADJUST	Adjust	ID	
Response	Meaning															
NORMAL	Normal															
GREENBOARD	Blackboard															
ADJUST	Adjust															
Description	This inquires about the current screen color correction.  -1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 The screen color correction can be set by the WB command.															
Example	> GET WB or ? WB < g:WB=GREENBOARD  * Commands are indicated by ">", and responses are indicated by "<".															
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**												

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET WBRGB	Mode	Control	Setting	Reference
Function	Screen color correction (adjustment) inquiry				
Format	GET WBRGB ? WBRGB				
Response	g:WBRGB=<R adjustment value: Number> <G adjustment value: Number> <B adjustment value: Number>  For all other responses, refer to "Error List."				Number
Description	This inquires about the current screen color correction (adjustment).  -1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 The screen color correction (adjustment) can be set by the WBRGB command.				
Example	> GET WBRGB or ? WBRGB < g:WBRGB=10, 0, 19  * Commands are indicated by ">", and responses are indicated by "<".				
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**	

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.



Commands	GET SAT	Mode	Control	Setting	Reference
Function	Color saturation value setting inquiry				
Format	GET SAT ? SAT				
Response	g:SAT=<Color saturation value setting: Number>  For all other responses, refer to "Error List."				Number
Description	<p>This inquires about the current color saturation value setting.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) With some input signals, it may not be possible to make this inquiry.</p> <p>-2 The color saturation can be set by the SAT command.</p>				
Example	<p>&gt; GET SAT or ? SAT &lt; g:SAT=1</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>				
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01*	

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x	x	x	x				-	-			x	
SX7	x		x	x	x	x				x	x			x	
SX60															
X700															

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET HUE	Mode	Control	Setting	Reference
Function	Hue value setting inquiry				
Format	GET HUE ? HUE				
Response	g:HUE=<Hue value setting: Number>  For all other responses, refer to "Error List."				Number
Description	<p>This inquires about the current hue value set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) With some input signals, it may not be possible to make this inquiry.</p> <p>-2 The hue can be set by the HUE command.</p>				
Example	<p>&gt; GET HUE or ? HUE &lt; g:HUE=1</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>				
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**	

Supported Command States

Model	Power			Input								Mode		Remarks	
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote		Local
SX50	x		x	x	x	x	—	—	—	—	—	x		x	
SX7								—	—						
SX60	x		x	x	x	x	—			x	x	x		x	
X700												x			

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET RGBGAIN	Mode	Control	Setting	Reference
Function	RGB gain adjustment value inquiry				
Format	GET RGBGAIN ? RGBGAIN				
Response	g:RGBGAIN=<R adjustment value: Number> <G adjustment value: Number> <B adjustment value: Number>  For all other responses, refer to "Error List."				Number
Description	<p>This command is used to inquire about the current RGB gain adjustment values.</p> <p>(1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTDRV command and FCONTDRV command. )</p> <p>(2) The RGB gain can be set using the RGBGAIN command.</p>				
Example	<p>&gt; GET RGBGAIN or ? RGBGAIN &lt; g:RGBGAIN=-10, 0, 19</p> <p>*Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>				
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**	
	x				
When a command is not supported, "e:000A INVALID.PARAMETER" is returned.					

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID.MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	GET RGBOFFSET				Mode	Control	Setting	Reference
Function	RGB offset adjustment value inquiry							
Format	GET RGBOFFSET ? RGBOFFSET							
Response	g:RGBOFFSET=<R adjustment value: Number> <G adjustment value: Number> <B adjustment value: Number>  For all other responses, refer to "Error List."							Number
Description	<p>This command is used to inquire about the current RGB offset adjustment values.</p> <p>(1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTRV command and FCONTRV command. )</p> <p>(2) The RGB offset can be set using the RGBOFFSET command.</p>							
Example	<p>&gt; GET RGBOFFSET or ? RGBOFFSET &lt; g:RGBOFFSET=-10, 0, 19</p> <p>*Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				
	x							
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.								

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	GET ACADJUST				Mode	Control	Setting	Reference												
Function	Advanced color adjustment inquiry																			
Format	GET ACADJUST ? ACADJUST																			
Response	<div>g:ACADJUST=&lt;Details of adjustment:ID&gt;</div> <table><thead><tr><th>Details of adjustment</th><th>Meaning</th></tr></thead><tbody><tr><td>NOCORRECT</td><td>No adjustment</td></tr><tr><td>MEM_L</td><td>Low memory color adjustment</td></tr><tr><td>MEM_M</td><td>Medium memory color adjustment</td></tr><tr><td>MEM_H</td><td>High memory color adjustment</td></tr><tr><td>6AX</td><td>6-axis adjustment</td></tr></tbody></table> <div>For all other responses, refer to "Error List."</div>							Details of adjustment	Meaning	NOCORRECT	No adjustment	MEM_L	Low memory color adjustment	MEM_M	Medium memory color adjustment	MEM_H	High memory color adjustment	6AX	6-axis adjustment	ID
Details of adjustment	Meaning																			
NOCORRECT	No adjustment																			
MEM_L	Low memory color adjustment																			
MEM_M	Medium memory color adjustment																			
MEM_H	High memory color adjustment																			
6AX	6-axis adjustment																			
Description	<p>This inquires about the details of the current advanced color adjustment.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The advanced color adjustment can be set by the ACADJUST command.</p>																			
Example	<p>&gt; GET ACADJUST or ? ACADJUST &lt; g:ACADJUST=6AX</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>																			
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**																
		x	x	x																
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.																				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x	x	x	x				-	-			x	
SX7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET MEMCADJ				Mode	Control	Setting	Reference										
Function	Memory color adjustment setting inquiry																	
Format	GET MEMCADJ ? MEMCADJ																	
Response	g:MEMCADJ=<Details of adjustment:ID> <table border="1"><thead><tr><th>Details of adjustment</th><th>Meaning</th></tr></thead><tbody><tr><td>OFF</td><td>No adjustment</td></tr><tr><td>MEM_L</td><td>Low memory color adjustment</td></tr><tr><td>MEM_M</td><td>Medium memory color adjustment</td></tr><tr><td>MEM_H</td><td>High memory color adjustment</td></tr></tbody></table> For all other responses, refer to "Error List."							Details of adjustment	Meaning	OFF	No adjustment	MEM_L	Low memory color adjustment	MEM_M	Medium memory color adjustment	MEM_H	High memory color adjustment	ID
Details of adjustment	Meaning																	
OFF	No adjustment																	
MEM_L	Low memory color adjustment																	
MEM_M	Medium memory color adjustment																	
MEM_H	High memory color adjustment																	
Description	<p>This command is used to inquire about the current memory color adjustment setting.</p> <p>(1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTRV command and FCONTRV command. )</p> <p>(2) The memory color adjustment can be set using the MEMCADJ command.</p>																	
Example	> GET MEMCADJ or ? MEMCADJ < g:MEMCADJ=MEM_M  *Commands are indicated by ">", and responses are indicated by "<".																	
Commands supported	SX50 01.00** x	SX7 01.01**	SX60 01.01**	X700 01.01**														
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.																		

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	GET 6AXADJ				Mode	Control	Setting	Reference						
Function	6-axis adjustment ON/OFF inquiry													
Format	GET 6AXADJ ? 6AXADJ													
Response	<div>g:6AXADJ=&lt;Setting&gt;:ID&lt;</div> <table><tr><th>Setting</th><th>Meaning</th></tr><tr><td>ON</td><td>This sets the 6-axis adjustment to ON.</td></tr><tr><td>OFF</td><td>This sets the 6-axis adjustment to OFF.</td></tr></table> <div>For all other responses, refer to "Error List."</div>							Setting	Meaning	ON	This sets the 6-axis adjustment to ON.	OFF	This sets the 6-axis adjustment to OFF.	ID
Setting	Meaning													
ON	This sets the 6-axis adjustment to ON.													
OFF	This sets the 6-axis adjustment to OFF.													
Description	<p>This command is used to inquire whether the 6-axis adjustment is ON or OFF.</p> <p>(1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time.</p> <p>However, a "busy" response is given while the zoom or focus lens is being driven.</p> <p>( Refer to the ZCONTDRV command and FCONTDRV command. )</p> <p>(2) ON or OFF for the 6-axis adjustment can be set using the 6AXADJ command.</p>													
Example	<div>&gt; GET 6AXADJ or ? 6AXADJ</div> <div>&lt; g:6AXADJ=ON</div> <div>*Commands are indicated by "&gt;", and responses are indicated by "&lt;".</div>													
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**										
	x													
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.														

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	GET 6AXR-6AXY						Mode	Control	Setting	Reference
Function	6-axis correction R to Y hue/color saturation setting inquiry									
Format	R setting inquiry   G setting inquiry   B setting inquiry   C setting inquiry   M setting inquiry   Y setting inquiry <b>GET 6AXR   GET 6AXG   GET 6AXB   GET 6AXC   GET 6AXM   GET 6AXY</b> <b>? 6AXR   ? 6AXG   ? 6AXB   ? 6AXC   ? 6AXM   ? 6AXY</b>									
Response	<b>g:6AXR(G,B,C,M,Y)=&lt;Hue value: Number&gt;   &lt;Color saturation: Number&gt;</b>  For all other responses, refer to "Error List."									Number
Description	This inquires about the current 6-axis correction R to Y hue and color saturation settings.  -1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 The 6-axis correction R to Y can be set by the 6AXR to Y command.									
Example	> GET 6AXR or ? 6AXR < g:6AXR=12, -8  * Commands are indicated by ">", and responses are indicated by "<".									
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**						

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.



Commands	GET LAMP				Mode	Control	Setting	Reference						
Function	Lamp output setting inquiry													
Format	GET LAMP ? LAMP													
Response	<p>g:LAMP=&lt;Setting:ID&gt;</p> <table><tr><th>Setting</th><th>Meaning</th></tr><tr><td>NORMAL</td><td>Normal</td></tr><tr><td>SILENT</td><td>Silent cooling</td></tr></table> <p>For all other responses, refer to "Error List."</p>							Setting	Meaning	NORMAL	Normal	SILENT	Silent cooling	ID
Setting	Meaning													
NORMAL	Normal													
SILENT	Silent cooling													
Description	<p>This inquires about the current lamp output setting.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The lamp output can be set by the LAMP command.</p>													
Example	<p>&gt; GET LAMP or ? LAMP &lt; g:LAMP=NORMAL</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>													
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**										

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET VKS/HKS				Mode	Control	Setting	Reference
Function	Vertical/horizontal keystone setting inquiry							
Format	Vertical keystone setting inquiry <b>GET VKS</b> <b>? VKS</b>				Horizontal keystone setting inquiry <b>GET HKS</b> <b>? HKS</b>			
Response	<b>g:VKS=&lt;Vertical keystone setting: Number&gt;</b> <b>g:HKS=&lt;Horizontal keystone setting: Number&gt;</b>  For all other responses, refer to "Error List."							Number
Description	These inquire about the current vertical and horizontal keystone settings.  -1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 The vertical and horizontal keystone settings can be selected by the VKS and HKS commands, respectively.							
Example	> GET VKS or ? VKS < g:VKS=-23  * Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-	x		x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* If the necessary signals are not input, 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET AVOL	Mode	Control	Setting	Reference
Function	Audio volume setting inquiry				
Format	GET AVOL ? AVOL				
Response	g:AVOL=<Volume setting: Number>  For all other responses, refer to "Error List."				Number
Description	<p>This inquires about the current audio volume setting.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The audio volume can be set by the AVOL command.</p>				
Example	<p>&gt; GET AVOL or ? AVOL &lt; g:AVOL=18</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>				
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**	

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET MUTE				Mode	Control	Setting	Reference						
Function	Mute control setting inquiry													
Format	GET MUTE ? MUTE													
Response	<div>g:MUTE=&lt;Setting&gt;:ID&gt;<table><tr><th>Setting</th><th>Meaning</th></tr><tr><td>ON</td><td>This turns off the audio/beep sound.</td></tr><tr><td>OFF</td><td>This returns the audio/beep sound to its original setting.</td></tr></table></div> <div>For all other responses, refer to "Error List."</div>							Setting	Meaning	ON	This turns off the audio/beep sound.	OFF	This returns the audio/beep sound to its original setting.	ID
Setting	Meaning													
ON	This turns off the audio/beep sound.													
OFF	This returns the audio/beep sound to its original setting.													
Description	<p>This inquires about the current mute control setting.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 Mute control can be set by the MUTE command.</p>													
Example	<p>&gt; GET MUTE or ? MUTE &lt; g:MUTE=ON</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>													
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**										

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x												
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET BVOL				Mode	Control	Setting	Reference						
Function	Beep sound value setting inquiry													
Format	GET BVOL ? BVOL													
Response	<div>g:BVOL=&lt;Setting ID&gt;</div> <table><tr><th>Setting</th><th>Meaning</th></tr><tr><td>0</td><td>BEEP sound mute</td></tr><tr><td>1</td><td>BEEP sound output</td></tr></table> <div>For all other responses, refer to "Error List."</div>							Setting	Meaning	0	BEEP sound mute	1	BEEP sound output	ID
Setting	Meaning													
0	BEEP sound mute													
1	BEEP sound output													
Description	<p>This inquires about the current beep sound value set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the <u>ZCONTDRV command</u> and FCONTDRV command.)</p> <p>-2 The beep sound can be set using the BVOL command.</p>													
Example	<p>&gt; GET BVOL or ? BVOL &lt; g:BVOL=ON</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>													
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**										

Supported Command States

Supported Commands Status															
Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET IMAGEFLIP				Mode	Control	Setting	Reference															
Function	Flip display setting inquiry																						
Format	GET IMAGEFLIP ? IMAGEFLIP																						
Response	<p>g:IMAGEFLIP=&lt;Setting:ID&gt;</p> <table><thead><tr><th>Setting</th><th>Meaning</th><th>Remarks</th></tr></thead><tbody><tr><td>NONE</td><td>None</td><td></td></tr><tr><td>CEILING</td><td>Ceiling</td><td>Flip horizontally</td></tr><tr><td>REAR</td><td>Rear</td><td>Flip vertically</td></tr><tr><td>REAR_CEILING</td><td>Rear ceiling</td><td>Flip horizontally and vertically</td></tr></tbody></table> <p>For all other responses, refer to "Error List."</p>							Setting	Meaning	Remarks	NONE	None		CEILING	Ceiling	Flip horizontally	REAR	Rear	Flip vertically	REAR_CEILING	Rear ceiling	Flip horizontally and vertically	ID
Setting	Meaning	Remarks																					
NONE	None																						
CEILING	Ceiling	Flip horizontally																					
REAR	Rear	Flip vertically																					
REAR_CEILING	Rear ceiling	Flip horizontally and vertically																					
Description	<p>This inquires about the current flip display setting.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTRV command and FCONTRV command.)</p> <p>-2 The flip display can be set using the IMAGEFLIP command.</p>																						
Example	<p>&gt; GET IMAGEFLIP or ? IMAGEFLIP &lt; g:IMAGEFLIP=REAR_CEILING</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>																						
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**																			

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET PMM				Mode	Control	Setting	Reference								
Function	Power management setting inquiry															
Format	GET PMM ? PMM															
Response	<div>g:PMM=&lt;Setting:ID&gt;</div> <table><tr><th>Setting</th><th>Meaning</th></tr><tr><td>OFF</td><td>Off</td></tr><tr><td>STANDBY</td><td>Standby mode</td></tr><tr><td>EXIT</td><td>Exit mode</td></tr></table> <div>For all other responses, refer to "Error List."</div>							Setting	Meaning	OFF	Off	STANDBY	Standby mode	EXIT	Exit mode	ID
Setting	Meaning															
OFF	Off															
STANDBY	Standby mode															
EXIT	Exit mode															
Description	<p>This inquires about the current power management setting.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command)</p> <p>-2 Power management can be set by the PMM command.</p>															
Example	<p>&gt; GET PMM or ? PMM &lt; g:PMM=EXIT</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>															
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**												

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET PJON				Mode	Control	Setting	Reference								
Function	Screen displayed at startup setting inquiry															
Format	GET PJON ? PJON															
Response	<b>g:PJON=&lt;Setting :ID&gt;</b> <table border="1"><thead><tr><th>Setting</th><th>Meaning</th></tr></thead><tbody><tr><td>CANON</td><td>Canon logo</td></tr><tr><td>SKIP</td><td>No display</td></tr><tr><td>LOGO</td><td>User screen</td></tr></tbody></table> <p>For all other responses, refer to "Error List."</p>							Setting	Meaning	CANON	Canon logo	SKIP	No display	LOGO	User screen	ID
Setting	Meaning															
CANON	Canon logo															
SKIP	No display															
LOGO	User screen															
Description	<p>This inquires about the current setting for the screen to be displayed at startup.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The setting for the screen displayed at startup can be set by the PJON command.</p>															
Example	> GET PJON or ? PJON < g:PJON=SKIP  * Commands are indicated by ">", and responses are indicated by "<".															
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**												

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.



Commands	GET NOSIG				Mode	Control	Setting	Reference								
Function	Screen displayed at startup with no signals setting inquiry															
Format	GET NOSIG ? NOSIG															
Response	<div>g:NOSIG=&lt;Setting:ID&gt;</div> <table><tr><th>Setting</th><th>Meaning</th></tr><tr><td>BLACK</td><td>Black screen</td></tr><tr><td>BLUE</td><td>Blue screen</td></tr><tr><td>LOGO</td><td>User screen</td></tr></table> <div>For all other responses, refer to "Error List."</div>							Setting	Meaning	BLACK	Black screen	BLUE	Blue screen	LOGO	User screen	ID
Setting	Meaning															
BLACK	Black screen															
BLUE	Blue screen															
LOGO	User screen															
Description	<p>This inquires about the current setting for the screen to be displayed when there are no signals.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The display screen when there are no signals can be set by the NOSIG command.</p>															
Example	<p>&gt; GET NOSIG or ? NOSIG &lt; g:NOSIG=LOGO</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>															
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**												

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET NOSHOW				Mode	Control	Setting	Reference								
Function	Display screen when nothing is shown setting inquiry															
Format	GET NOSHOW ? NOSHOW															
Response	<div>g:NOSHOW=&lt;Setting:ID&gt;</div> <table><tr><th>Setting</th><th>Meaning</th></tr><tr><td>BLACK</td><td>Black screen</td></tr><tr><td>BLUE</td><td>Blue screen</td></tr><tr><td>LOGO</td><td>User screen</td></tr></table> <div>For all other responses, refer to "Error List."</div>							Setting	Meaning	BLACK	Black screen	BLUE	Blue screen	LOGO	User screen	ID
Setting	Meaning															
BLACK	Black screen															
BLUE	Blue screen															
LOGO	User screen															
Description	<p>This inquires about the current setting for the screen to be displayed when nothing is shown.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The current display screen when nothing is shown can be set by the NOSHOW command.</p>															
Example	<p>&gt; GET NOSHOW or ? NOSHOW &lt; g:NOSHOW=LOGO</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>															
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**												

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET LOGOPOS				Mode	Control	Setting	Reference												
Function	User image position inquiry																			
Format	GET LOGOPOS ? LOGOPOS																			
Response	<div>g:LOGOPOS=&lt;Setting:ID&gt;</div> <table><thead><tr><th>Setting</th><th>Meaning</th></tr></thead><tbody><tr><td>UPPER_L</td><td>Upper left</td></tr><tr><td>UPPER_R</td><td>Upper right</td></tr><tr><td>CENTER</td><td>Center</td></tr><tr><td>LOWER_L</td><td>Lower left</td></tr><tr><td>LOWER_R</td><td>Lower right</td></tr></tbody></table> <div>For all other responses, refer to "Error List."</div>							Setting	Meaning	UPPER_L	Upper left	UPPER_R	Upper right	CENTER	Center	LOWER_L	Lower left	LOWER_R	Lower right	ID
Setting	Meaning																			
UPPER_L	Upper left																			
UPPER_R	Upper right																			
CENTER	Center																			
LOWER_L	Lower left																			
LOWER_R	Lower right																			
Description	<p>This inquires about the current user screen (logo) display position.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 An inquiry cannot be made if the user image has not been registered. (The error "e:1002 NO_LOGO_CAPTURED" is returned.)</p> <p>-3 The user image position can be set by the LOGOPOS command.</p>																			
Example	<p>&gt; GET LOGOPOS or ? LOGOPOS &lt; g:LOGOPOS=LOWER_L</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>																			
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**																

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET LANG				Mode	Control	Setting	Reference																																																																																																																																		
Function	Language inquiry																																																																																																																																									
Format	GET LANG ? LANG																																																																																																																																									
Response	g:LANG=<Language:ID>						ID																																																																																																																																			
<table><tr><th rowspan="2">Language</th><th rowspan="2">Meaning</th><th colspan="4">Errors supported by model</th></tr><tr><th>SX50</th><th>SX6</th><th>SX60</th><th>X600</th></tr><tr><td>ENG</td><td>English</td><td></td><td></td><td></td><td></td></tr><tr><td>FRA</td><td>French</td><td></td><td></td><td></td><td></td></tr><tr><td>GER</td><td>German</td><td></td><td></td><td></td><td></td></tr><tr><td>ITA</td><td>Italian</td><td></td><td></td><td></td><td></td></tr><tr><td>SPA</td><td>Spanish</td><td></td><td></td><td></td><td></td></tr><tr><td>POR</td><td>Portuguese</td><td></td><td></td><td></td><td></td></tr><tr><td>SWE</td><td>Swedish</td><td></td><td></td><td></td><td></td></tr><tr><td>DUT</td><td>Dutch</td><td></td><td></td><td></td><td></td></tr><tr><td>RUS</td><td>Russian</td><td></td><td></td><td></td><td></td></tr><tr><td>CHS</td><td>Chinese (simplified)</td><td></td><td></td><td></td><td></td></tr><tr><td>CHT</td><td>Chinese (traditional)</td><td></td><td></td><td></td><td></td></tr><tr><td>KOR</td><td>Korean</td><td></td><td></td><td></td><td></td></tr><tr><td>JPN</td><td>Japanese</td><td></td><td></td><td></td><td></td></tr><tr><td>FIN</td><td>Finnish</td><td>x</td><td></td><td></td><td></td></tr><tr><td>NOR</td><td>Norwegian</td><td>x</td><td></td><td></td><td></td></tr><tr><td>TUR</td><td>Turkish</td><td>x</td><td></td><td></td><td></td></tr><tr><td>POL</td><td>Polish</td><td>x</td><td></td><td></td><td></td></tr><tr><td>HUN</td><td>Hungarian</td><td>x</td><td></td><td></td><td></td></tr><tr><td>CZE</td><td>Czech</td><td>x</td><td></td><td></td><td></td></tr><tr><td>DAN</td><td>Danish</td><td>x</td><td></td><td></td><td></td></tr></table>						Language		Meaning	Errors supported by model				SX50	SX6	SX60	X600	ENG	English					FRA	French					GER	German					ITA	Italian					SPA	Spanish					POR	Portuguese					SWE	Swedish					DUT	Dutch					RUS	Russian					CHS	Chinese (simplified)					CHT	Chinese (traditional)					KOR	Korean					JPN	Japanese					FIN	Finnish	x				NOR	Norwegian	x				TUR	Turkish	x				POL	Polish	x				HUN	Hungarian	x				CZE	Czech	x				DAN	Danish	x				For all other responses, refer to "Error List."	
Language	Meaning	Errors supported by model																																																																																																																																								
		SX50	SX6	SX60	X600																																																																																																																																					
ENG	English																																																																																																																																									
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ITA	Italian																																																																																																																																									
SPA	Spanish																																																																																																																																									
POR	Portuguese																																																																																																																																									
SWE	Swedish																																																																																																																																									
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KOR	Korean																																																																																																																																									
JPN	Japanese																																																																																																																																									
FIN	Finnish	x																																																																																																																																								
NOR	Norwegian	x																																																																																																																																								
TUR	Turkish	x																																																																																																																																								
POL	Polish	x																																																																																																																																								
HUN	Hungarian	x																																																																																																																																								
CZE	Czech	x																																																																																																																																								
DAN	Danish	x																																																																																																																																								
Description	This inquires about the current language selection.  -1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 The language can be set by the LANG command.																																																																																																																																									
Example	> GET LANG or ? LANG < g:LANG=SWE  * Commands are indicated by ">", and responses are indicated by "<".																																																																																																																																									
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**																																																																																																																																						

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET TERMINAL				Mode	Control	Setting	Reference						
Function	Terminal setting inquiry													
Format	GET TERMINAL ? TERMINAL													
Response	<div>g:TERMINAL=&lt;Setting:ID&gt;</div> <table><tr><th>Setting</th><th>Meaning</th></tr><tr><td>IN</td><td>This sets to input</td></tr><tr><td>OUT</td><td>This sets to output</td></tr></table> <div>For all other responses, refer to "Error List."</div>							Setting	Meaning	IN	This sets to input	OUT	This sets to output	ID
Setting	Meaning													
IN	This sets to input													
OUT	This sets to output													
Description	<p>This inquires about the current terminal setting.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The terminal can be set by the TERMINAL command.</p>													
Example	<p>&gt; GET TERMINAL or ? TERMINAL &lt; g:TERMINAL=OUT</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>													
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**										
		x	x	x										
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.														

When a command is not supported, "e:000A INVALID\_PARAMETER" is returned.

## Supported Command States

Model	Parameter	Power			Input									Mode	
		OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local
SX50	IN	x		x							-	-			x
	OUT	x		x			x	x			-	-			x
SX7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SX60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'TERMINAL\_OUT' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET KEYLOCK				Mode	Control	Setting	Reference								
Function	Key lock setting inquiry															
Format	GET KEYLOCK ? KEYLOCK															
Response	<div>g:KEYLOCK=&lt;Setting:ID&gt;</div> <table><tr><th>Setting</th><th>Meaning</th></tr><tr><td>OFF</td><td>No locking (OFF)</td></tr><tr><td>MAIN</td><td>Main key lock</td></tr><tr><td>RC</td><td>Remote control key lock</td></tr></table> <div>For all other responses, refer to "Error List."</div>							Setting	Meaning	OFF	No locking (OFF)	MAIN	Main key lock	RC	Remote control key lock	ID
Setting	Meaning															
OFF	No locking (OFF)															
MAIN	Main key lock															
RC	Remote control key lock															
Description	<p>This inquires about the current key lock setting.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTRV command and FCONTRV command.)</p> <p>-2 Key lock can be set by the KEYLOCK command.</p>															
Example	<p>&gt; GET KEYLOCK or ? KEYLOCK &lt; g:KEYLOCK=OFF</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>															
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**												

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET RCCH				Mode	Control	Setting	Reference						
Function	Remote control setting inquiry													
Format	GET RCCH ? RCCH													
Response	<div>g:RCCH=&lt;Setting;!D&gt;</div> <table><thead><tr><th>Setting</th><th>Meaning</th></tr></thead><tbody><tr><td>1</td><td>Remote control channel 1</td></tr><tr><td>2</td><td>Remote control channel 2</td></tr></tbody></table> <div>For all other responses, refer to "Error List."</div>							Setting	Meaning	1	Remote control channel 1	2	Remote control channel 2	ID
Setting	Meaning													
1	Remote control channel 1													
2	Remote control channel 2													
Description	<p>This inquires about the current remote control setting.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 Remote control can be set by the RCCH command.</p>													
Example	<div>&gt; GET RCCH or ? RCCH</div> <div>&lt; g:RCCH=1</div> <div>This inquires about the current remote control setting.</div> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>													
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**										

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x								-	-		x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET GUIDE				Mode	Control	Setting	Reference						
Function	Guide setting inquiry													
Format	GET GUIDE ? GUIDE													
Response	<div>g:GUIDE=&lt;Setting:ID&gt;</div> <table><tr><th>Setting</th><th>Meaning</th></tr><tr><td>ON</td><td>Guide display ON</td></tr><tr><td>OFF</td><td>Guide display OFF</td></tr></table> <div>For all other responses, refer to "Error List."</div>							Setting	Meaning	ON	Guide display ON	OFF	Guide display OFF	ID
Setting	Meaning													
ON	Guide display ON													
OFF	Guide display OFF													
Description	<p>This command is used to inquire about the current guide setting.</p> <p>(1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time.</p> <p>However, a "busy" response is given while the zoom or focus lens is being driven.</p> <p>( Refer to the ZCONTDRV command and FCONTDRV command. )</p> <p>(2) The guide can be set using the <b>GUIDE</b> command.</p>													
Example	> GET GUIDE or ? GUIDE < g:GUIDE=OFF				An inquiry is made about the current guide setting.									
*Commands are indicated by ">", and responses are indicated by "<".														
Commands supported	SX50 0 1 . 0 0 **	SX7 0 1 . 0 1 **	SX60 0 1 . 0 1 **	X700 0 1 . 0 1 **										
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.														

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.



Commands	GET DPON				Mode	Control	Setting	Reference						
Function	Direct power-on setting inquiry													
Format	GET DPON ? DPON													
Response	g:DPON=<Setting:ID> <table border="1"><thead><tr><th>Setting</th><th>Meaning</th></tr></thead><tbody><tr><td>ON</td><td>This sets direct power-on to ON.</td></tr><tr><td>OFF</td><td>This sets direct power-on to OFF.</td></tr></tbody></table> For all other responses, refer to "Error List."							Setting	Meaning	ON	This sets direct power-on to ON.	OFF	This sets direct power-on to OFF.	ID
Setting	Meaning													
ON	This sets direct power-on to ON.													
OFF	This sets direct power-on to OFF.													
Description	<p>This command is used to inquire about the current direct power-on setting.</p> <p>(1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTRV command and FCONTRV command. )</p> <p>(2) Direct power-on can be set using the DPON command.</p>													
Example	> GET DPON or ? DPON < g:DPON=OFF  *Commands are indicated by ">", and responses are indicated by "<".													
Commands supported	SX50 0 1 . 0 0 **	SX7 0 1 . 0 1 **	SX60 0 1 . 0 1 **	X700 0 1 . 0 1 **										
	x													
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.														

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	GET LEDILLUMINATE				Mode	Control	Setting	Reference						
Function	Emotional LED and signal sensing LED lighting setting inquiry													
Format	GET LEDILLUMINATE ? LEDILLUMINATE													
Response	g:LEDILLUMINATE=<Setting:ID> <table border="1"><thead><tr><th>Setting</th><th>Meaning</th></tr></thead><tbody><tr><td>ON</td><td>This sets the LED display to ON.</td></tr><tr><td>OFF</td><td>This sets the LED display to OFF.</td></tr></tbody></table> For all other responses, refer to "Error List."							Setting	Meaning	ON	This sets the LED display to ON.	OFF	This sets the LED display to OFF.	ID
Setting	Meaning													
ON	This sets the LED display to ON.													
OFF	This sets the LED display to OFF.													
Description	This command is used to inquire about the current emotional LED and signal sensing LED lighting control settings.  (1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTDRV command and FCONTDRV command. ) (2) LED lighting control can be set using the LEDILLUMINATE command.													
Example	> GET LEDILLUMINATE or ? LEDILLUMINATE < g:LEDILLUMINATE=OFF  *Commands are indicated by ">", and responses are indicated by "<".													
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**										
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.														

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID.MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	GET NOSHOWSTATE										Mode	Control	Setting	Reference					
Function	NoShow status inquiry																		
Format	GET NOSHOWSTATE ? NOSHOWSTATE																		
Response	<div>g:NOSHOWSTATE=&lt;Status:ID&gt;</div> <table><tr><th>Status</th><th>Meaning</th></tr><tr><td>ON</td><td>Screen temporarily off</td></tr><tr><td>OFF</td><td>Screen not temporarily off</td></tr></table> <div>For all other responses, refer to "Error List."</div>												Status	Meaning	ON	Screen temporarily off	OFF	Screen not temporarily off	ID
Status	Meaning																		
ON	Screen temporarily off																		
OFF	Screen not temporarily off																		
Description	This command is used to inquire about the current NoShow status.  (1) This inquiry can be made at any time provided that the <b>power-on</b> status is established. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTRV command and FCONTRV command. ) (2) No show status ON/OFF is controlled using the "RC NOSHOW" command in the local mode. (Toggling)																		
Example	> GET NOSHOWSTATE or ? NOSHOWSTATE < g:NOSHOWSTATE=ON  *Commands are indicated by ">", and responses are indicated by "<".																		
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**															
	x																		
When a command is not supported, "e:000A INVALID PARAMETER" is returned.																			

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x												
SX60															
X700															

\* If the command cannot be supported, "NOT\_POWER\_SUPPLIED" is returned as an error response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	GET FREEZE				Mode	Control	Setting	Reference						
Function	Freeze status inquiry													
Format	GET FREEZE ? FREEZE													
Response	g:FREEZE=<Status:ID> <table border="1"><thead><tr><th>Status</th><th>Meaning</th></tr></thead><tbody><tr><td>ON</td><td>Image now frozen</td></tr><tr><td>OFF</td><td>Image now not frozen</td></tr></tbody></table> <p>For all other responses, refer to "Error List."</p>							Status	Meaning	ON	Image now frozen	OFF	Image now not frozen	ID
Status	Meaning													
ON	Image now frozen													
OFF	Image now not frozen													
Description	<p>This command is used to inquire about the current NoShow status.</p> <p>(1) This inquiry can be made at any time provided that the <b>power-on</b> status is established. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTRV command and FCONTRV command. )</p> <p>(2) Freeze status ON/OFF is controlled using the "RC FREEZE" command in the local mode. (Toggling)</p>													
Example	<p>&gt; GET FREEZE or ? FREEZE &lt; g:FREEZE=ON</p> <p>*Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>													
Commands supported	SX50 01.00** x	SX7 01.01**	SX60 01.01**	X700 01.01**										
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.														

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x												
SX60															
X700															

\* If the command cannot be supported, "NOT\_POWER\_SUPPLIED" is returned as an error response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	GET SIGNALSTATUS				Mode	Control	Setting	Reference								
Function	Signal status inquiry															
Format	GET SIGNALSTATUS ? SIGNALSTATUS															
Response	<div>g:SIGNALSTATUS=&lt;Signal status:ID&gt;</div> <table><thead><tr><th>Signal status</th><th>Meaning</th></tr></thead><tbody><tr><td>NO_SIGNAL</td><td>Signal not detected</td></tr><tr><td>DISPLAYING</td><td>Image now displayed or display enable status</td></tr><tr><td>SETTING</td><td>Signal detection and display preparation in progress</td></tr></tbody></table> <div>For all other responses, refer to "Error List."</div>							Signal status	Meaning	NO_SIGNAL	Signal not detected	DISPLAYING	Image now displayed or display enable status	SETTING	Signal detection and display preparation in progress	ID
Signal status	Meaning															
NO_SIGNAL	Signal not detected															
DISPLAYING	Image now displayed or display enable status															
SETTING	Signal detection and display preparation in progress															
Description	<p>This inquires about the current image signal input status.</p> <p>-1 This inquiry can be made at any time provided that the <b>power-on</b> status is established. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) For the "SX50," the <b>remote mode</b> must be established.</p> <p>-2 This returns the signal status of the selected input. Use INPUT command for the input selection.</p> <p>-3 Even if the status is "DISPLAYING" (image now shown), the image is not displayed during blanking. Check the status using GET BLANK. To clear the blank status, use BLANK=OFF.</p> <p>-4 Similarly, the image is not displayed during "no show". Check the status using GET NOSHOWSTATUS. To clear no show, execute RC NOSHOW.</p>															
Example	<div>&gt; GET SIGNALSTATUS or ? SIGNALSTATUS</div> <div>&lt; g:SIGNALSTATUS=NO_SIGNAL</div> <div>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</div>															
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**												

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x												
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET LAMPCOUNTER				Mode	Control	Setting	Reference																																																	
Function	Lamp ON time inquiry																																																								
Format	GET LAMPCOUNTER ? LAMPCOUNTER																																																								
Response	g:LAMPCOUNTER="<Lamp ON time: Character string>"							Character string																																																	
<table><tr><th rowspan="2">Lamp ON time</th><th colspan="4">Meaning (ON time: H)</th></tr><tr><th>SX50</th><th>SX7</th><th>SX60</th><th>X700</th></tr><tr><td>"[G_____]"</td><td>0 ~ 199</td><td>0 ~ 359</td><td>0 ~ 459</td><td>0 ~ 358</td></tr><tr><td>"[GG_____]"</td><td>200 ~ 399</td><td>360 ~ 719</td><td>460 ~ 919</td><td>360 ~ 719</td></tr><tr><td>"[GGG_____]"</td><td>400 ~ 599</td><td>720 ~ 1079</td><td>920 ~ 1379</td><td>720 ~ 1079</td></tr><tr><td>"[GGGG_____]"</td><td>600 ~ 799</td><td>1080 ~ 1439</td><td>1380 ~ 1839</td><td>1080 ~ 1119</td></tr><tr><td>"[GGGGG_____]"</td><td>800 ~ 999</td><td>1440 ~ 1799</td><td>1840 ~ 2299</td><td>1440 ~ 1799</td></tr><tr><td>"[GGGGGY_____]"</td><td>1000 ~ 1199</td><td>1800 ~ 1899</td><td>2300 ~ 2399</td><td>1800 ~ 1899</td></tr><tr><td>"[GGGGGYY_____]"</td><td>1200 ~ 1399</td><td>1900 ~ 1999</td><td>2400 ~ 2499</td><td>1900 ~ 1999</td></tr><tr><td>"[GGGGGYYR_____]"</td><td>1400 ~</td><td>2000 ~</td><td>2500 ~</td><td>2000 ~</td></tr></table>									Lamp ON time	Meaning (ON time: H)				SX50	SX7	SX60	X700	"[G_____]"	0 ~ 199	0 ~ 359	0 ~ 459	0 ~ 358	"[GG_____]"	200 ~ 399	360 ~ 719	460 ~ 919	360 ~ 719	"[GGG_____]"	400 ~ 599	720 ~ 1079	920 ~ 1379	720 ~ 1079	"[GGGG_____]"	600 ~ 799	1080 ~ 1439	1380 ~ 1839	1080 ~ 1119	"[GGGGG_____]"	800 ~ 999	1440 ~ 1799	1840 ~ 2299	1440 ~ 1799	"[GGGGGY_____]"	1000 ~ 1199	1800 ~ 1899	2300 ~ 2399	1800 ~ 1899	"[GGGGGYY_____]"	1200 ~ 1399	1900 ~ 1999	2400 ~ 2499	1900 ~ 1999	"[GGGGGYYR_____]"	1400 ~	2000 ~	2500 ~	2000 ~
Lamp ON time	Meaning (ON time: H)																																																								
	SX50	SX7	SX60	X700																																																					
"[G_____]"	0 ~ 199	0 ~ 359	0 ~ 459	0 ~ 358																																																					
"[GG_____]"	200 ~ 399	360 ~ 719	460 ~ 919	360 ~ 719																																																					
"[GGG_____]"	400 ~ 599	720 ~ 1079	920 ~ 1379	720 ~ 1079																																																					
"[GGGG_____]"	600 ~ 799	1080 ~ 1439	1380 ~ 1839	1080 ~ 1119																																																					
"[GGGGG_____]"	800 ~ 999	1440 ~ 1799	1840 ~ 2299	1440 ~ 1799																																																					
"[GGGGGY_____]"	1000 ~ 1199	1800 ~ 1899	2300 ~ 2399	1800 ~ 1899																																																					
"[GGGGGYY_____]"	1200 ~ 1399	1900 ~ 1999	2400 ~ 2499	1900 ~ 1999																																																					
"[GGGGGYYR_____]"	1400 ~	2000 ~	2500 ~	2000 ~																																																					
For all other responses, refer to "Error List."																																																									
Description	This inquires about the current lamp ON time.  -1 This inquiry can be executed in any status provided that AC power is supplied to the projector. For the "SX50," the projector must be in the <b>remote mode</b> and <b>power-on</b> status.																																																								
Example	> GET LAMPCOUNTER or ? LAMPCOUNTER < g:LAMPCOUNTER="[GG_____]"  * Commands are indicated by ">", and responses are indicated by "<".																																																								
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**																																																					

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7															
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET ERR				Mode	Control	Setting	Reference
Function	Error information inquiry							
Format	GET ERR ? ERR							
Response	g:ERR=<ErrorID:ID>						ID	

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50											—	—		x	
SX7															
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET PRODCODE	Mode	Control	Setting	Reference					
Function	Product information inquiry									
Format	GET PRODCODE ? PRODCODE									
Response	g:PRODCODE="<Product name: Character string>" <table border="1"><thead><tr><th>Product name</th></tr></thead><tbody><tr><td>SX50</td></tr><tr><td>SX6</td></tr><tr><td>SX60</td></tr><tr><td>X600</td></tr></tbody></table> For all other responses, refer to "Error List."				Product name	SX50	SX6	SX60	X600	Character string
Product name										
SX50										
SX6										
SX60										
X600										
Description	This inquires about the product name of the projector.  -1 This inquiry can be executed in any status provided that AC power is supplied to the projector. For the "SX50," the projector must be in the <b>remote mode</b> and <b>power-on</b> status.									
Example	> GET PRODCODE or ? PRODCODE < g:PRODCODE="SX50"  * Commands are indicated by ">", and responses are indicated by "<".									
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**						

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x								—	—			x
SX7															
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.



Commands	GET ROMVER	Mode	Control	Setting	Reference
Function	ROM version inquiry				
Format	GET ROMVER ? ROMVER				
Response	g:ROMVER=" <ROM VERSION; Character string>"  <ROM VERSION> := 99.9999  For all other responses, refer to "Error List."				Character string
Description	This inquires about the product name of the projector.  -1 This inquiry can be executed in any status provided that AC power is supplied to the projector. For the "SX50," the projector must be in the <b>remote mode</b> and <b>power-on</b> status.				
Example	> GET ROMVER or ? ROMVER < g:ROMVER="01.0306"  * Commands are indicated by ">", and responses are indicated by "<".				
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**	

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7															
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	GET COMVER	Mode	Control	Setting	Reference
Function	User command version inquiry				
Format	GET COMVER ? COMVER				
Response	<b>g:COMVER="&lt;User command version;Character string&gt;"</b>  <User command version> := 99.9999  For all other responses, refer to "Error List."				Character string
Description	This inquires about the user command version of the projector.  -1 This inquiry can be executed in any status provided that AC power is supplied to the projector. For the "SX50," the <b>remote mode</b> must be established. -2 The user command version consists of a 2-digit number followed by a 4-digit number. Question marks may appear in place of the numerals if the firmware has not been upgraded correctly. (Example "??:????")				
Example	> GET COMVER or ? COMVER < g:COMVER="01.0000"  * Commands are indicated by ">", and responses are indicated by "<".				
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**	

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50											—	—			x
SX7															
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE		Mode	Control	Setting	Reference																																																																																																																																																																					
Function	Setting range request																																																																																																																																																																										
Format	RANGE <Parameter>																																																																																																																																																																										
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value</td></tr><tr><td>GAMMA</td><td></td><td>Gamma correction</td></tr><tr><td>DGAMMA</td><td></td><td>Dynamic gamma</td></tr><tr><td>PROG</td><td></td><td>Progressive</td></tr><tr><td>WB</td><td></td><td>Screen color correction</td></tr><tr><td>WBRGB</td><td></td><td>Screen color correction value (RGB)</td></tr><tr><td>SAT</td><td></td><td>Color saturation setting value</td></tr><tr><td>HUE</td><td></td><td>Hue setting value</td></tr><tr><td>RGBGAIN</td><td></td><td>RGB gain adjustment</td></tr><tr><td>RGBOFFSET</td><td></td><td>RGB offset adjustment</td></tr><tr><td>ACADJUST</td><td></td><td>Advanced color correction method</td></tr><tr><td>MEMCADJ</td><td></td><td>Memory color correction</td></tr><tr><td>6AXADJ</td><td></td><td>6-axis adjustment ON/OFF</td></tr><tr><td>6AXR</td><td rowspan="6">6-axis color adjust</td><td>R setting value</td></tr><tr><td>6AXG</td><td>G setting value</td></tr><tr><td>6AXB</td><td>B setting value</td></tr><tr><td>6AXC</td><td>C setting value</td></tr><tr><td>6AXM</td><td>M setting value</td></tr><tr><td>6AXY</td><td>Y setting value</td></tr><tr><td>VKS</td><td></td><td>Vertical keystone distortion values</td></tr><tr><td>HKS</td><td></td><td>Horizontal keystone distortion values</td></tr><tr><td>AVOL</td><td></td><td>Volume adjustment</td></tr><tr><td>MUTE</td><td></td><td>Mute state</td></tr><tr><td>BVOL</td><td></td><td>Beep sound setting status</td></tr><tr><td>IMAGEFLIP</td><td></td><td>Flip display status</td></tr><tr><td>PMM</td><td></td><td>Power management</td></tr><tr><td>PJON</td><td></td><td>Display screen at startup setting</td></tr><tr><td>NOSIG</td><td></td><td>Display screen when there are no signals setting</td></tr><tr><td>NOSHOW</td><td></td><td>Display screen when nothing shown</td></tr><tr><td>LOGOPOS</td><td></td><td>User image position</td></tr><tr><td>LANG</td><td></td><td>Language</td></tr><tr><td>LAMP</td><td></td><td>Lamp output</td></tr><tr><td>TERMINAL</td><td></td><td>Terminal 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value	SHARP		Sharpness setting value	GAMMA		Gamma correction	DGAMMA		Dynamic gamma	PROG		Progressive	WB		Screen color correction	WBRGB		Screen color correction value (RGB)	SAT		Color saturation setting value	HUE		Hue setting value	RGBGAIN		RGB gain adjustment	RGBOFFSET		RGB offset adjustment	ACADJUST		Advanced color correction method	MEMCADJ		Memory color correction	6AXADJ		6-axis adjustment ON/OFF	6AXR	6-axis color adjust	R setting value	6AXG	G setting value	6AXB	B setting value	6AXC	C setting value	6AXM	M setting value	6AXY	Y setting value	VKS		Vertical keystone distortion values	HKS		Horizontal keystone distortion values	AVOL		Volume adjustment	MUTE		Mute state	BVOL		Beep sound setting status	IMAGEFLIP		Flip display status	PMM		Power management	PJON		Display screen at startup setting	NOSIG		Display screen when there are no signals setting	NOSHOW		Display screen when nothing shown	LOGOPOS		User image position	LANG		Language	LAMP		Lamp output	TERMINAL		Terminal setting	KEYLOCK		Key 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ID

<b>Response</b>	<p>Responses are made in the formats below for each parameter.</p> <p><b>&lt;Parameter name&gt;=&lt;Type&gt;, &lt;Setting range&gt;</b></p> <table border="1"> <thead> <tr> <th>Type</th><th>Meaning</th></tr> </thead> <tbody> <tr> <td>I</td><td>ID</td></tr> <tr> <td>N</td><td>Number</td></tr> </tbody> </table> <p>The definition of &lt;Setting range&gt; varies depending on the type.</p> <p><b>1. When the type is I (ID)</b>  <b>&lt;Setting range&gt;: = &lt;Setting option 1&gt;, &lt;Setting option 2&gt;, &lt;Setting option 3&gt;, &lt;Setting option 4&gt;, ..., &lt;Setting option N&gt;</b></p> <p><b>2. When the type is N (Number)</b>  <b>&lt;Setting range&gt;: = &lt;Setting option 1 minimum value&gt;, &lt;Setting option 1 maximum value&gt;, &lt;Setting option 2 minimum value&gt;, &lt;Setting option 2 maximum value&gt;, ..., &lt;Setting option N minimum value&gt;, &lt;Setting option N maximum value&gt;</b></p>	Type	Meaning	I	ID	N	Number
Type	Meaning						
I	ID						
N	Number						
<b>Description</b>	<p>This retrieves the setting range of each parameter.</p> <ul style="list-style-type: none"> <li>-1 The setting ranges of the setting or control command parameters may differ depending on the projector status (input, display mode, etc.).</li> <li>-2 To ensure reliability, request the setting ranges before sending the setting or control commands. (Once the setting ranges have been obtained, the setting or control commands can be</li> <li>-3 For further details, refer to the descriptions of the commands.</li> </ul>						

Commands	RANGE POWER				Mode	Control	Setting	Reference
Function	Power control setting option request							
Format	RANGE POWER							
Response	r:POWER=l, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the power control setting options.</p> <p>-1 This inquiry can be executed in any status provided that AC power is supplied to the projector.  A "busy" response is given while the zoom or focus lens is being driven.  (Refer to the ZCONTDRV command and FCONTDRV command.)  With the SX50, the inquiry can be made in the remote mode only.</p> <p>-2 The power can be controlled by the POWER command.</p>							
Example	<p>&gt; RANGE POWER  &lt; r:POWER=l, ON, OFF</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50										—	—			x	
SX7														x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' is returned as an error response.

Commands	RANGE BLANK				Mode	Control	Setting	Reference
Function	BLANK setting option request							
Format	RANGE BLANK							
Response	r:BLANK=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This command is used to inquire about the parameter options which enable BLANK to be set.</p> <p>(1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time.  However, a "busy" response is given while the zoom or focus lens is being driven.  ( Refer to the ZCONTDRV command and FCONTDRV command. )</p> <p>(2) The BLANK can be controlled using the BLANK command.</p>							
Example	<p>&gt; RANGE BLANK  &lt; r:BLANK=I, ON, OFF</p> <p>*Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				
Commands supported	x							
	When a command is not supported, "e:000A INVALID_PARAMETER" is returned.							

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE AUTOSETEXE				Mode	Control	Setting	Reference
Function	Auto setup setting option request							
Format	RANGE AUTOSETEXE							
Response	r:AUTOSETEXE=l, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This command is used to inquire about the parameter options which enable auto setup to be set.</p> <p>(1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTDRV command and FCONTDRV command. )</p> <p>(2) Auto setup can be controlled using the AUTOSETEXE command.</p>							
Example	<p>&gt; RANGE AUTOSETEXE &lt; r:AUTOSETEXE=l, FOCUS, VKS, SCRN, INPUT</p> <p>*Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				
	x							
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.								

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE INPUT				Mode	Control	Setting	Reference
Function	Input selection setting option request							
Format	RANGE INPUT							
Response	r:INPUT=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable input selection to be set.</p> <p>-1 This inquiry can be made in the <b>power-on</b> status.  A "busy" response is given while the zoom or focus lens is being driven.  (Refer to the ZCONTDRV command and FCONTDRV command.)  With the SX50, the inquiry can be made in the remote mode only.</p> <p>-2 The input selection can be controlled by the INPUT command.</p>							
Example	<p>&gt; RANGE INPUT  &lt; r:INPUT=I, D-RGB, A-RGB1, A-RGB2, COMP, VIDEO, S-VIDEO</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.



Commands	RANGE DOTS				Mode	Control	Setting	Reference
Function	Total dot number setting range inquiry							
Format	RANGE DOTS							
Response	r:DOTS=N, <Minimum setting value>, <Maximum setting value>  For all other responses, refer to "Error List."							Number
Description	<p>This inquires about the range within which the total number of dots can be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time.  A "busy" response is given while the zoom or focus lens is being driven.  (Refer to the ZCONTDRV command and FCONTDRV command.)  With some input signals, it may not be possible to make this inquiry.</p> <p>-2 The total number of dots can be set by the DOTS command.</p>							
Example	<p>&gt; RANGE DOTS  &lt; r:DOTS=N, 0, 4096</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x	x			x	x	x	—	—	x		x	
SX7	x		x	x			x	x	x	x	x	x		x	
SX60															
X700															

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE TRACK				Mode	Control	Setting	Reference
Function	Tracking adjustment range request							
Format	RANGE TRACK							
Response	r:TRACK=N, <Minimum setting value>, <Maximum setting value>  For all other responses, refer to "Error List."							Number
Description	<p>This inquires about the values to which the tracking can be adjusted.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time.  A "busy" response is given while the zoom or focus lens is being driven.  (Refer to the ZCONTDRV command and FCONTDRV command.)  With some input signals, it may not be possible to make this inquiry.</p> <p>-2 The tracking adjustment can be set by the TRACK command.</p>							
Example	<p>&gt; RANGE TRACK  &lt; r:TRACK=N, 0, 31</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x	x			x	x	x	—	—	x		x	
SX7	x		x	x			x	x	x	x	x	x		x	
SX60															
X700															

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands		RANGE HPOS/VPOS		Mode	Control	Setting	Reference
Function	Horizontal/vertical position adjustment range request						
Format	Horizontal position adjustment range inquiry    Vertical position adjustment range inquiry RANGE   HPOS                                  RANGE   VPOS						
Response	r:HPOS=N, <Minimum setting value>, <Maximum setting value> r:VPOS=N, <Minimum setting value>, <Maximum setting value>						Number
	For all other responses, refer to "Error List."						
Description	These inquire about the ranges within which the horizontal and vertical positions can be adjusted.  -1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) With some input signals, it may not be possible to make this inquiry. -2 The horizontal and vertical position adjustments can be set using the HPOS and VPOS commands, respectively.						
Example	> RANGE VPOS < r:VPOS=N, 0, 820  * Commands are indicated by ">", and responses are indicated by "<".						
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**			

## Supported Command States

[illegible]

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

## Supported Command States

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE SEL				Mode	Control	Setting	Reference
Function	Input signal setting option request							
Format	RANGE SEL							
Response	r:SEL=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable the input signals to be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time.  A "busy" response is given while the zoom or focus lens is being driven.  (Refer to the ZCONTDRV command and FCONTDRV command.)  With some input signals, it may not be possible to make this inquiry.</p> <p>-2 The input signals can be selected by the SEL command.</p>							
Example	> RANGE SEL < r:SEL=I, AUTO  * Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x	x	x	x				—	—	x		x	
SX7	x		x	x	x	x				x	x	x		x	
SX60															
X700															

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE ASPECT				Mode	Control	Setting	Reference
Function	Screen setting option request							
Format	RANGE ASPECT							
Response	r:ASPECT=l, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable the screen to be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) With some input signals, it may not be possible to make this inquiry.</p> <p>-2 The screen settings can be selected by the ASPECT command.</p>							
Example	<p>&gt; RANGE ASPECT &lt; r:ASPECT=l, AUTO, NORMAL, WIDE</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE IMAGE				Mode	Control	Setting	Reference
Function	Image mode setting option request							
Format	RANGE IMAGE							
Response	r:IMAGE=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable the image mode to be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The image mode settings can be selected by the IMAGE command.</p>							
Example	<p>&gt; RANGE IMAGE &lt; r:IMAGE=I, STANDARD, PRESENTATION, CINEMA, SRGB</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x								—	—		x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE BRI				Mode	Control	Setting	Reference
Function	Brightness setting range request							
Format	RANGE BRI							
Response	r:BRI=N, <Minimum setting value>, <Maximum setting value>  For all other responses, refer to "Error List."							Number
Description	<p>This inquires about the range of values at which the brightness can be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The brightness can be set by the BRI command.</p>							
Example	<p>&gt; RANGE BRI &lt; r:BRI=N, -20, 20</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.



Commands	RANGE CONT				Mode	Control	Setting	Reference
Function	Contrast setting range request							
Format	RANGE CONT							
Response	r:CONT=N, <Minimum setting value>, <Maximum setting value>  For all other responses, refer to "Error List."							Number
Description	This inquires about the range within which the contrast can be set.  -1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTRV command and FCONTRV command.) -2 The contrast can be set by the CONT command.							
Example	> RANGE CONT < r:CONT=N, -20, 20  * Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE SHARP				Mode	Control	Setting	Reference
Function	Sharpness setting range request							
Format	RANGE SHARP							
Response	r:SHARP=N, <Minimum setting value>, <Maximum setting value>  For all other responses, refer to "Error List."							Number
Description	This inquires about the range within which the sharpness can be set.  -1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 The sharpness can be set by the SHARP command.							
Example	> RANGE SHARP < r:SHARP=N, -4, 4  * Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE GAMMA				Mode	Control	Setting	Reference
Function	Gamma adjustment range request							
Format	RANGE GAMMA							
Response	r:GAMMA=N, <Minimum setting value>, <Maximum setting value>  For all other responses, refer to "Error List."							Number
Description	This inquires about the range within which the gamma can be adjusted.  -1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 The gamma adjustment value can be set by the GAMMA command.							
Example	> RANGE GAMMA < r:GAMMA=N, -4, 4  * Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE DGAMMA				Mode	Control	Setting	Reference
Function	Dynamic gamma setting option request							
Format	RANGE DGAMMA							
Response	r:DGAMMA=l, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable the dynamic gamma to be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The dynamic gamma setting value can be selected by the DGAMMA command.</p>							
Example	<p>&gt; RANGE DGAMMA &lt; r:DGAMMA=l, 0, 1</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE PROG				Mode	Control	Setting	Reference
Function	Progressive setting option request							
Format	RANGE PROG							
Response	r:PROG=l, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable the progressive setting to be selected.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time.  A "busy" response is given while the zoom or focus lens is being driven.  (Refer to the ZCONTDRV command and FCONTDRV command.)  With some input signals, it may not be possible to make this inquiry.</p> <p>-2 The progressive setting can be selected by the PROG command.</p>							
Example	<p>&gt; RANGE PROG  &lt; r:PROG=l, 0, 1, 2</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x	x	x	x				—	—	x		x	
SX7	x		x	x	x	x				x	x	x		x	
SX60															
X700															

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE WB				Mode	Control	Setting	Reference
Function	Screen color correction option request							
Format	RANGE WB							
Response	r:WB=l, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable the screen color to be corrected.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The screen color correction can be set by the WB command.</p>							
Example	<p>&gt; RANGE WB &lt; r:WB=l, NORMAL, GREENBOARD, ADJUST</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE WBRGB				Mode	Control	Setting	Reference
Function	Screen color correction (adjustment) range request							
Format	RANGE WBRGB							
Response	r:WBRGB=N, <R minimum value>, <R maximum value>, <G minimum value>, <G maximum value>, <B minimum value>, <B maximum value>  For all other responses, refer to "Error List."							Number
Description	<p>This inquires about the range within which the screen color correction (adjustment) can be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The screen color correction (adjustment) can be set by the WBRGB command.</p>							
Example	> RANGE WBRGB < r:WBRGB=N, -20, 20, -20, 20, -20, 20  * Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE SAT				Mode	Control	Setting	Reference
Function	Color saturation setting range request							
Format	RANGE SAT							
Response	r:SAT=N, <Minimum setting value>, <Maximum setting value>  For all other responses, refer to "Error List."							Number
Description	<p>This inquires about the range within which the color saturation can be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time.  A "busy" response is given while the zoom or focus lens is being driven.  (Refer to the ZCONTDRV command and FCONTDRV command.)  With some input signals, it may not be possible to make this inquiry.</p> <p>-2 The color saturation can be set by the SAT command.</p>							
Example	> RANGE SAT < r:SAT=N, -20, 20  * Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x	x	x	x				—	—			x	
SX7	x		x	x	x	x				x	x			x	
SX60															
X700															

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.



Commands	RANGE HUE				Mode	Control	Setting	Reference
Function	Hue setting range request							
Format	RANGE HUE							
Response	r:HUE=N, <Minimum setting value>, <Maximum setting value>  For all other responses, refer to "Error List."							Number
Description	<p>This inquires about the range within which the hue can be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time.  A "busy" response is given while the zoom or focus lens is being driven.  (Refer to the ZCONTDRV command and FCONTDRV command.)  With some input signals, it may not be possible to make this inquiry.</p> <p>-2 The hue can be set by the HUE command.</p>							
Example	<p>&gt; RANGE HUE  &lt; r:HUE=N, -20, 20</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x	x	x	x	—	—	—	—	—	x		x	
SX7							—	—	—						
SX60	x		x	x	x	x				x	x			x	
X700							—					x			

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'INVALID\_SOURCE' is returned as an error response.

\* If the necessary signals are not input, 'INVALID\_SIGNAL (\*\*\*\*\*)' or 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE RGBGAIN				Mode	Control	Setting	Reference
Function	RGB gain adjustment range request							
Format	RANGE RGBGAIN							
Response	r:RGBGAIN=N, <R minimum value>, <R maximum value>, <G minimum value>, <G maximum value>, <B minimum value>, <B maximum value>  For all other responses, refer to "Error List."							Number
Description	This command is used to inquire about the range in which the RGB gain adjustment can be set.  (1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTRV command and FCONTRV command. ) (2) The RGB gain can be set using the RGBGAIN command.							
Example	> RANGE RGBGAIN < r:RGBGAIN=N, -20, 20, -20, 20, -20, 20  *Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				
	x							
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.								

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE RGBOFFSET				Mode	Control	Setting	Reference
Function	RGB offset adjustment range inquiry							
Format	RANGE RGBOFFSET							
Response	r:RGBOFFSET=N, <R minimum value>, <R maximum value>, <G minimum value>, <G maximum value>, <B minimum value>, <B maximum value>  For all other responses, refer to "Error List."							Number
Description	<p>This command is used to inquire about the current RGB offset adjustment values.</p> <p>(1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time.</p> <p>However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTRV command and FCONTRV command. )</p> <p>(2) The RGB offset can be set using the RGBOFFSET command.</p>							
Example	<p>&gt; RANGE RGBOFFSET &lt; r:RGBOFFSET=N, -20, 20, -20, 20, -20, 20</p> <p>*Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**				
x								
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.								

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE ACADJUST				Mode	Control	Setting	Reference
Function	Advanced color adjustment option request							
Format	RANGE ACADJUST							
Response	r:ACADJUST=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable the advanced color adjustment to be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTRV command and FCONTRV command.)</p> <p>-2 The advanced color adjustment can be set by the ACADJUST command.</p>							
Example	<p>&gt; RANGE ACADJUST &lt; r:ACADJUST=I, NOCORRECT, MEM_L, MEM_M, MEM_H, 6AX</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**				
		x	x	x				
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.								

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x	x	x	x				-	-			x	
SX7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE MEMCADJ				Mode	Control	Setting	Reference
Function	Memory color adjustment setting option request							
Format	RANGE MEMCADJ							
Response	r:MEMCADJ=l, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This command is used to inquire about the parameter options which enable the memory color adjustment to be set.</p> <p>(1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTRV command and FCONTRV command. )</p> <p>(2) The memory color adjustment can be set using the MEMCADJ command.</p>							
Example	<p>&gt; RANGE MEMCADJ &lt; r:MEMCADJ=l, OFF, MEM_L, MEM_M, MEM_H</p> <p>*Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				
	x							
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.								

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE 6AXADJ				Mode	Control	Setting	Reference
Function	6-axis adjustment option inquiry							
Format	RANGE 6AXADJ							
Response	r:6AXADJ=l, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This command is used to inquire about the parameter options which enable the 6-axis adjustment to be set.</p> <p>(1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTRV command and FCONTRV command. )</p> <p>(2) ON or OFF for the 6-axis adjustment can be set using the 6AXADJ command.</p>							
Example	<p>&gt; RANGE 6AXADJ &lt; r:6AXADJ=l, ON, OFF</p> <p>*Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				
	x							
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.								

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE 6AXR-6AXY	Mode	Control	Setting	Reference
Function	6-axis correction R to Y hue/color saturation setting range request				
Format	R range inquiry G range inquiry B range inquiry C range inquiry M range inquiry Y range inquiry RANGE 6AXR RANGE 6AXG RANGE 6AXB RANGE 6AXC RANGE 6AXM RANGE 6AXY				
Response	r:6AXR(G,B,C,M,Y)=N, <Minimum hue value>, <Maximum hue value>, <Minimum color saturation value>, <Maximum color saturation value>  For all other responses, refer to "Error List."				Number
Description	<p>This inquires about the range within which the 6-axis correction R to Y hue and color saturation can be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The 6-axis correction R to Y can be set by the 6AXR to Y command.</p>				
Example	<p>&gt; RANGE 6AXC &lt; r:6AXC=N, -20, 20, -20, 20</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>				
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**	

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x								—	—		x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE LAMP				Mode	Control	Setting	Reference
Function	Lamp output setting option request							
Format	RANGE LAMP							
Response	r:LAMP=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable the lamp output to be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTRV command and FCONTRV command.)</p> <p>-2 The lamp output can be set by the LAMP command.</p>							
Example	<p>&gt; RANGE LAMP &lt; r:LAMP=I, NORMAL, SILENT</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.



Commands	RANGE VKS/HKS				Mode	Control	Setting	Reference
Function	Vertical/horizontal keystone setting range request							
Format	Vertical keystone setting range inquiry <b>RANGE VKS</b>				Horizontal keystone setting range inquiry <b>RANGE HKS</b>			
Response	r:VKS=N, <Minimum setting value>, <Maximum setting value> r:HKS=N, <Minimum setting value>, <Maximum setting value>  For all other responses, refer to "Error List."							Number
Description	These inquire about the ranges within which the vertical and horizontal keystone can be set.  -1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 The vertical and horizontal keystone settings can be selected by the VKS and HKS commands, respectively.							
Example	> RANGE HKS < r:HKS=N, -30, 30  * Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x									x		x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* If the necessary signals are not input, 'NO\_SIGNAL' is returned.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE AVOL				Mode	Control	Setting	Reference
Function	Audio volume setting range request							
Format	RANGE AVOL							
Response	r:AVOL=N, <Minimum setting value>, <Maximum setting value>  For all other responses, refer to "Error List."							Number
Description	This inquires about the range within which the audio volume can be set.  -1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTRV command and FCONTRV command.) -2 The audio volume can be set by the AVOL command.							
Example	> RANGE AVOL < r:AVOL=N, 0, 20  * Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE MUTE				Mode	Control	Setting	Reference
Function	Mute control setting option request							
Format	RANGE MUTE							
Response	r:MUTE=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable mute control to be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTRV command and FCONTRV command.)</p> <p>-2 Mute control can be set by the MUTE command.</p>							
Example	<p>&gt; RANGE MUTE &lt; r:MUTE=I, ON, OFF</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x	x	x								—	—		x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE BVOL				Mode	Control	Setting	Reference
Function	Beep sound setting option request							
Format	RANGE BVOL							
Response	r:BVOL=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable the beep sound to be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTRV command and FCONTRV command.)</p> <p>-2 The beep sound can be set using the BVOL command.</p>							
Example	<p>&gt; RANGE BVOL &lt; r:BVOL=I, 0, 1</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE IMAGEFLIP				Mode	Control	Setting	Reference
Function	Flip display setting option request							
Format	RANGE IMAGEFLIP							
Response	r:IMAGEFLIP=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable the flip display to be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The flip display can be set using the IMAGEFLIP command.</p>							
Example	<p>&gt; RANGE IMAGEFLIP &lt; r:IMAGEFLIP=I, NONE, CEILING, REAR, REAR_SEILING</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE PMM				Mode	Control	Setting	Reference
Function	Power management setting option request							
Format	RANGE PMM							
Response	r:PMM=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable power management to be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 Power management can be set by the PMM command.</p>							
Example	<p>&gt; RANGE PMM &lt; r:PMM=I, OFF, STANDBY, EXIT</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

Supported Command States

Supported Commands Status															
Model	Power			Input								Mode		Remarks	
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote		Local
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE PJON				Mode	Control	Setting	Reference
Function	Display screen at startup setting option request							
Format	RANGE PJON							
Response	r:PJON=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable the display screen setting at startup to be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The setting for the screen displayed at startup can be set by the PJON command.</p>							
Example	<p>&gt; RANGE PJON &lt; r:PJON=I, CANON, SKIP, LOGO</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

## Supported Command States

Supported Commands Status															
Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE NOSIG				Mode	Control	Setting	Reference
Function	Display screen when there are no signals setting option request							
Format	RANGE PJON							
Response	r:NOSIG=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable the display screen when there are no signals to be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The display screen when there are no signals can be set by the NOSIG command.</p>							
Example	<p>&gt; RANGE NOSIG &lt; r:NOSIG=I, BLACK, BLUE, LOGO</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.



Commands	RANGE NOSHOW				Mode	Control	Setting	Reference
Function	Display screen when nothing is shown setting option request							
Format	RANGE NOSHOW							
Response	r:NOSHOW=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable the display screen when nothing is shown to be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The current display screen when nothing is shown can be set by the NOSHOW command.</p>							
Example	<p>&gt; RANGE NOSHOW &lt; r:NOSHOW=I, BLACK, BLUE, LOGO</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE LOGOPOS				Mode	Control	Setting	Reference
Function	User image position setting option inquiry							
Format	RANGE LOGOPOS							
Response	r:LOGOPOS=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable the user screen (logo) display position to be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 An inquiry cannot be made if the user image has not been registered. (The "e:1002 NO_LOGO_CAPTURED" error is returned.)</p> <p>-3 The user image position can be set by the LOGOPOS command.</p>							
Example	<p>&gt; RANGE LOGOPOS &lt; r:LOGOPOS=I, UPPER_L, UPPER_R, CENTER, LOWER_L, LOWER_R</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE LANG				Mode	Control	Setting	Reference
Function	Language setting option request							
Format	RANGE LANG							
Response	r:LANG=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable the language to be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.)</p> <p>-2 The language can be set by the LANG command.</p>							
Example	<p>&gt; RANGE LANG &lt; r:LANG=I,ENG,FRA,GER,ITA,SPA,POR,SWE,DUT,RUS,CHS,CHT,KOR,JPN,FIN,NOR,TUR,POL,HUN,CZE,DAN</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

## Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE TERMINAL				Mode	Control	Setting	Reference
Function	Terminal setting option request							
Format	RANGE TERMINAL							
Response	r:TERMINAL=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable the terminal to be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTRV command and FCONTRV command.)</p> <p>-2 The terminal can be set by the TERMINAL command.</p>							
Example	<p>&gt; RANGE TERMINAL &lt; r:TERMINAL=I, IN, OUT</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				
		x	x	x				
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.								

## Supported Command States

Model	Parameter	Power			Input									Mode	
		OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local
SX50	IN	x		x							—	—			x
	OUT	x		x			x	x			—	—			x
SX7															
SX60															
X700															

\* If the command cannot be supported, 'INVALID\_MODE,' 'NOT\_POWER\_SUPPLIED' or 'TERMINAL\_OUT' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE KEYLOCK				Mode	Control	Setting	Reference
Function	Key lock setting option request							
Format	RANGE KEYLOCK							
Response	r:KEYLOCK=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This inquires about the parameter options which enable key lock to be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTRV command and FCONTRV command.)</p> <p>-2 Key lock can be set by the KEYLOCK command.</p>							
Example	<p>&gt; RANGE KEYLOCK &lt; r:KEYLOCK=I, MAIN, RC</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							-	-			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE RCCH	Mode	Control	Setting	Reference
Function	Remote control setting option request				
Format	RANGE RCCH				
Response	r:RCCH=l, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."				ID
Description	<p>This inquires about the parameter options which enable remote control to be set.</p> <p>-1 This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTRV command and FCONTRV command.)</p> <p>-2 Remote control can be set by the RCCH command.</p>				
Example	<p>&gt; RANGE RCCH &lt; r:RCCH=l, 1, 2</p> <p>* Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>				
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**	

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	x		x							—	—			x	
SX7	x		x											x	
SX60															
X700															

\* If a command cannot be supported, 'INVALID\_MODE' or 'NOT\_POWER\_SUPPLIED' is returned as an error response.

\* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE GUIDE				Mode	Control	Setting	Reference
Function	Guide setting enable option request							
Format	RANGE GUIDE							
Response	r:GUIDE=l, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This command is used to inquire about the parameter options which enable the guide to be set.</p> <p>(1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time.  However, a "busy" response is given while the zoom or focus lens is being driven.  ( Refer to the ZCONTRV command and FCONTRV command. )</p> <p>(2) The guide can be set using the GUIDE command.</p>							
Example	<p>&gt; RANGE GUIDE  &lt; r:GUIDE=l, ON, OFF</p> <p>*Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				
	x							
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.								

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE DPON				Mode	Control	Setting	Reference
Function	Direct power-on setting inquiry							
Format	RANGE DPON							
Response	r:DPON=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This command is used to inquire about the parameter options which enable direct power-on to be set.</p> <p>(1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTRV command and FCONTRV command. )</p> <p>(2) Direct power-on can be set using the DPON command.</p>							
Example	> RANGE DPON < r:DPON=I, ON, OFF  *Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50 01.00** x	SX7 01.01**	SX60 01.01**	X700 01.01**				
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.								

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.



Commands	RANGE LEDILLUMINATE				Mode	Control	Setting	Reference
Function	Emotional LED and signal sensing LED lighting setting option request							
Format	RANGE LEDILLUMINATE							
Response	r:LEDILLUMINATE=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This command is used to inquire about the parameter options which enable emotional LED and signal sensing LED lighting control to be set.</p> <p>(1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. ( Refer to the ZCONTDRV command and FCONTDRV command. )</p> <p>(2) LED lighting control can be set using the LEDILLUMINATE command.</p>							
Example	<p>&gt; RANGE LEDILLUMINATE &lt; r:LEDILLUMINATE=I, ON, OFF</p> <p>*Commands are indicated by "&gt;", and responses are indicated by "&lt;".</p>							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				
	x							
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.								

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE ZSTEPDRV				Mode	Control	Setting	Reference
Function	Zoom lens step drive control option request							
Format	RANGE ZSTEPDRV							
Response	r:ZSTEPDRV=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This command is used to inquire about the parameter options which enable the step drive of the zoom lens.</p> <p>(1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time.  However, a <b>"busy"</b> response is given if the zoom or focus lens is being driven .  ( Refer to the ZCONTRV command and FCONTRV command. )</p> <p>(2) Step control for the zoom lens can be exercised using the ZSTEPDRV command.</p>							
Example	> RANGE ZSTEPDRV < r:ZSTEPDRV=I, WIDE, TELE							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				
	x							
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.								

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE ZCONTDRV				Mode	Control	Setting	Reference
Function	Zoom lens continuous drive control option request							
Format	RANGE CONTZDRV							
Response	r:ZCONTDRV=l, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This command is used to inquire about the parameter options which enable the zoom lens to be driven continuously.</p> <p>(1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time. However, a <b>"busy"</b> response is given if the zoom or focus lens is being driven . ( Refer to the ZCONTDRV command and FCONTDRV command. )</p> <p>(2) Continuous control of the zoom lens can be exercised using the ZCONTDRV command.</p>							
Example	> RANGE ZCONTDRV < r:ZCONTDRV=l,-STOP, WIDE, TELE							
Commands supported	SX50	SX7	SX60	X700				
	01.00**	01.01**	01.01**	01.01**				
	x							
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.								

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE FSTEPDRV				Mode	Control	Setting	Reference
Function	Focus lens step drive control option request							
Format	RANGE FSTEPDRV							
Response	r:FSTEPDRV=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>  For all other responses, refer to "Error List."							ID
Description	<p>This command is used to inquire about the parameter options which enable the step drive of the focus lens.</p> <p>(1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time.  However, a <b>"busy"</b> response is given if the zoom or focus lens is being driven .  ( Refer to the ZCONTRV command and FCONTRV command. )</p> <p>(2) Step control for the focus lens can be exercised using the FSTEPDRV command.</p>							
Example	> RANGE FSTEPDRV < r:FSTEPDRV=I, FAR, NEAR							
Commands supported	SX50 01.00**	SX7 01.01**	SX60 01.01**	X700 01.01**				
	x							
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.								

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE FCONTDRV				Mode	Control	Setting	Reference
Function	Focus lens continuous drive control option request							
Format	RANGE FCONTDRV							
Response	r:FCONTDRV=l, <Setting option 1>, <Setting option 2>, ..., <Setting option n>							ID
For all other responses, refer to "Error List."								
Description	<p>This command is used to inquire about the parameter options which enable the focus lens to be driven continuously.</p> <p>(1) This inquiry can be made when the projector is in both the <b>remote mode</b> and <b>power-on</b> status at the same time.</p> <p>However, a <b>"busy"</b> response is given if the zoom or focus lens is being driven .</p> <p>( Refer to the ZCONTDRV command and FCONTDRV command. )</p> <p>(2) Continuous control of the focus lens can be exercised using the FCONTDRV command.</p>							
Example	> RANGE FCONTDRV < r:FCONTDRV=l, STOP, FAR, NEAR							
Commands supported	SX50 01.00** x	SX7 01.01**	SX60 01.01**	X700 01.01**				
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.								

## Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SX7	x		x											x	
SX60															
X700															

\*If a state is not supported, "INVALID\_MODE" or "NOT\_POWER\_SUPPLIED" is returned with the Err response.

\*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

## 10. Error List

Item	Code	TYPE	Error character strings	Errors supported by model				Error	Remedy
				(1)	(2)	(3)	(4)		
1	0001	e	BAD_SEQUENCE					Communication sequence error	Wait until the response is received to send the command.
2	0002	e	INVALID_COMMAND					Command is invalid (undefined).	Send the correct command.
3	0003	e	INVALID_MODE					The designated command cannot be executed in this mode.	Switch the mode using the REMOTE or LOCAL command.
4	0004	e	INVALID_FORMAT					The command format is incorrect.	Send in the correct command format.
5	0005	e	NOT_POWER_SUPPLIED					Power is not being supplied.	Use the POWER ON command to turn on the power.
6	—	i	BUSY					Mode switching or processing inside the projector is underway.	Wait until the power supply state changes to "ON", "OFF", or "PMM".
7	000A	e	INVALID_PARAMETER					The parameter (type) is invalid (undefined). This includes the case when the number of parameters is incorrect.	Use the correct parameter(s).
8	000B	e	JOB_TIMEOUT					SX50 internal processing has timed out.	Resend the command.
9	—	w	USER_COMMAND_VERSION_IS_UPDATED					The user command version is being updated.	Use GET COMVER to obtain the latest user command version.
10	—	i	BUSY (FOCUS)					The focus lens is now being driven.	Wait until the focus lens drive stops.
		i	BUSY (ZOOM)					The zoom lens is now being driven.	Wait until the zoom lens drive stops.
11	F001	e	SYSTEM (UNKNOWN)					An internal error occurred.	Resend the command.
	F002	e	SYSTEM (FOCUS)					An error occurred in AUTOSETEXE=FOCUS.	Eliminate the cause of the error, and resend the command.
	F004	e	SYSTEM (AUTO_KEYSTONE)					An error occurred in AUTOSETEXE=VKS.	
	F005	e	SYSTEM (SCREEN_COLOR)					An error occurred in AUTOSETEXE=SCRN.	
12	E0XX	e	COMMUNICATION_ERROR					A communication protocol violation occurred in the projector.	Resend the command.
13	200X	e	INVALID_SOURCE (****)					This cannot be executed with the current input source. The current input source is indicated in parentheses.	Change the input source.
14	2010	e	NO_SIGNAL					There is no signal input.	Input the signal.
	201X	e	INVALID_SIGNAL (****)					This cannot be executed with the current input signal. The current input signal is indicated in parentheses.	Change the input signal.
15	—	i	BUSY (NOW_SETTING)					Signal setting (detection) is in progress.	Wait until the processing is completed.
		i	BUSY (POWER_MANAGEMENT_READY)					Preparing to switch to power management standby.	
		i	BUSY (INTERNAL_PROCESS)					Heavy processing is in progress.	
		i	BUSY (FOCUS)					The focus lens is now being driven.	Wait until the focus lens drive stops.
		i	BUSY (ZOOM)					The zoom lens is now being driven.	Wait until the zoom lens drive stops.
16	0801 0802	e	INVALID_VALUE					Numerical parameters are invalid or outside the range.	Use the RANGE command to obtain the parameter range, and then use a parameter within the range.
17	1001	e	TERMINAL_OUT					The input cannot be selected since the terminal is set to output.	Use the TERMINAL command to set the terminal to input, and then select the input again.
	1002	e	NO_LOGO_CAPTURED					Processing cannot be executed since the user image is not registered.	Register the user image.
	1003	e	IP_NOT_AVAILABLE					IP conversion cannot be performed.	Change to the correct input signal.
	1004	e	POWER_MANAGEMENT_OFF					DPON cannot be set to ON when PMM is OFF.	Set DPON to ON when PMM is not OFF.
	1005	e	DIRECT_POWER_ON					PMM cannot be set to OFF when DPON is ON.	Set DPON to OFF.
	1006	e	NOW_BLANK					AUTOSETEXE=FOCUS or SCRAN cannot be executed since BLANK is ON.	After setting BLANK to ON, resend the command.
	203X	e	INVALID_RESOLUTION (***)					The input signal resolution is not correct.	Change to the correct resolution of the input signal.
18	—	i	INPUT_NOT_FOUND					The input was not switched since no input signal was found with AUTOSETEXE=INPUT.	There is no action to be taken since the status has been notified.

The error code is expressed as a four-digit hexadecimal character string. 'X' is a number from '0' to '9' or letter from 'A' to 'F'.

Errors with the newer item numbers have higher priority. (When there is more than one error, the highest level error is returned. However, error priority is the same within the same item number.)

Given below is the correspondence between the numbers (1) to (4) in the "Errors supported by model" column and the models concerned.

(1)	SX50
(2)	SX6
(3)	SX60
(4)	X600

**11. Other**

Use the remote control emulation function (RC command) in Local mode for the following functions.

Function	RC command parameter
No display	NOSHOW
Freeze screen	FREEZE
Digital zoom	DZOOM_P, DZOOM_M
Presentation timer	P_TIMER
Spotlight function	SPOT

## Appendix 1 Reset Items

What is initialized by the "RESET" command is set forth in the table below.

ALL	SYSTEM	IMAGE	Item	Setting	Reference command																																																																					
			Input source switching	A-RGB2	INPUT																																																																					
			Toggle button recording	C1:DRGB C2:ARGB2 V :VIDEO	-----																																																																					
			ARGB manual for input signal setting																																																																							
			Input signal select	AUTO	SEL																																																																					
			Input signal select (PC)	not selected	-----																																																																					
			Screen settings	FULL	ASPECT																																																																					
			Menu display position	CENTER	-----																																																																					
			Logo included/not included	not included	-----																																																																					
			User image position	CENTER	LOGOPOS																																																																					
			Screen in no show status	BLACK	NOSHOW																																																																					
			No signal screen	BLUE	NOSIG																																																																					
			Startup screen	CANON	PJON																																																																					
			Flip display	NONE	IMAGEFLIP																																																																					
			Image mode	STANDARD	IMAGE																																																																					
			What is initialized in the image modes																																																																							
				<table><tr><th>STANDARD</th><th>PRESEN</th><th>CINEMA</th><th>SRGB</th></tr><tr><td>Brightness</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Contrast</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Sharpness</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Gamma</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Dynamic gamma</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Screen color correction</td><td>NORMAL</td><td>NORMAL</td><td>NORMAL</td><td>NORMAL</td></tr><tr><td>  " adjustment values (R,G,B)</td><td>0, 0, 0</td><td>0, 0, 0</td><td>0, 0, 0</td><td>0, 0, 0</td></tr><tr><td>Advanced color adjustment</td><td>NOCORRECT</td><td>NOCORRECT</td><td>NOCORRECT</td><td>NOCORRECT</td></tr><tr><td>6-axis adjustment (SAT,HUE)</td><td>0, 0</td><td>0, 0</td><td>0, 0</td><td>0, 0</td></tr><tr><td>Lamp mode</td><td>NORMAL</td><td>NORMAL</td><td>SILENT</td><td>NORMAL</td></tr><tr><td>Saturation</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Hue</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Progressive</td><td>1</td><td>1</td><td>1</td><td>1</td></tr></table>	STANDARD	PRESEN	CINEMA	SRGB	Brightness	0	0	0	0	Contrast	0	0	0	0	Sharpness	0	0	0	0	Gamma	0	0	0	0	Dynamic gamma	0	0	0	0	Screen color correction	NORMAL	NORMAL	NORMAL	NORMAL	" adjustment values (R,G,B)	0, 0, 0	0, 0, 0	0, 0, 0	0, 0, 0	Advanced color adjustment	NOCORRECT	NOCORRECT	NOCORRECT	NOCORRECT	6-axis adjustment (SAT,HUE)	0, 0	0, 0	0, 0	0, 0	Lamp mode	NORMAL	NORMAL	SILENT	NORMAL	Saturation	0	0	0	0	Hue	0	0	0	0	Progressive	1	1	1	1	
STANDARD	PRESEN	CINEMA	SRGB																																																																							
Brightness	0	0	0	0																																																																						
Contrast	0	0	0	0																																																																						
Sharpness	0	0	0	0																																																																						
Gamma	0	0	0	0																																																																						
Dynamic gamma	0	0	0	0																																																																						
Screen color correction	NORMAL	NORMAL	NORMAL	NORMAL																																																																						
" adjustment values (R,G,B)	0, 0, 0	0, 0, 0	0, 0, 0	0, 0, 0																																																																						
Advanced color adjustment	NOCORRECT	NOCORRECT	NOCORRECT	NOCORRECT																																																																						
6-axis adjustment (SAT,HUE)	0, 0	0, 0	0, 0	0, 0																																																																						
Lamp mode	NORMAL	NORMAL	SILENT	NORMAL																																																																						
Saturation	0	0	0	0																																																																						
Hue	0	0	0	0																																																																						
Progressive	1	1	1	1																																																																						
			Terminal setting	IN	TERMINAL																																																																					
			Power management	OFF	PMM																																																																					
			Electronic sound	1	BVOL																																																																					
			Key lock	OFF	KEYLOCK																																																																					
			Password on/off	OFF	-----																																																																					
			Password	None	-----																																																																					
			Remote control	CH1	RCCH																																																																					
			Language	ENG	LANG																																																																					
			Menu category item	not selected	-----																																																																					
			Last spotlight	circle(large)	-----																																																																					
			Spotlight OSD position	Initial position	-----																																																																					
			Volume	10	AVOL																																																																					
			Keystone	0,0 (HKS,VKS)	HKS, VKS																																																																					
			P-Timer	0	-----																																																																					
			Mute	OFF	MUTE																																																																					
			Lamp ready indicator off flag	Off	-----																																																																					



Appendix 2 Table of Response Patterns by Command (1/3)











2005.11.14

Item	Commands	Version numbers of models supported		Response not send	LOCAL								REMOTE														
		SX50 01.00**	SX7 SX60 X700 01.01**		OFF	OFF2ON	ON	ON2OFF	ON2PMM	PMM	PMM2ON	OFF	OFF2ON	ON										ON2OFF	ON2PMM	PMM	PMM2ON
														Input signal													
														DG	A1	A2	CM	V	SV	DV	SC	X	ON	OFF	ON2OFF	ON2PMM	
1	REMOTE																										
2	LOCAL																										
3	POWER ON																										
	OFF																										
4	AUTOSETEXE FOCUS	x																									
	VKS																										
	SCRN																										
	INPUT																										
5	BLANK	x																									
6	INPUT																										
7	AUTOPC																										
8	DOTS																										
9	TRACK																										
10	HPOS																										
11	VPOS																										
12	HPIX																										
13	VPIX																										
14	SEL																										
15	ASPECT FULL		x																								
	NORMAL																										
	WIDE																										
	TRUE																										
	AUTO																										
16	IMAGE																										
17	BRI																										
18	CONT																										
19	SHARP																										
20	GAMMA																										
21	DGAMMA																										
22	PROG																										
23	WB																										
24	WBRGB																										
25	SAT																										
26	HUE																										
27	RGBGAIN	x																									
28	RGBOFFSET	x																									
29	ACADJUST		x																								
30	MEMCADJ	x																									
31	6AXADJ	x																									
32	6AXR - 6AXY																										
33	LAMP																										
34	RESET																										
35	VKS	-	-																								
36	HKS	-	-																								
37	AVOL																										
38	MUTE																										
39	BVOL																										
40	IMAGEFLIP																										
41	PMM																										
2	PJON																										
43	NOSIG																										
44	NOSHOW																										
45	LOGOPOS																										
46	LANG																										
47	TERMINAL IN		x																								
	OUT																										
48	KEYLOCK																										
49	RCCH																										
50	GUIDE	x																									
51	DPON	x																									
52	LEDILLUMINATE	x																									
53	ZSTEPDRV	x																									
54	ZCONTRV	x																									
55	FSTEPDRV	x																									
56	FCONTRV	x																									
57	RC																										
58	MAIN																										
59	Null																										

Appendix 2 Table of Response Patterns by Command (2/3)

Item	Commands	Version numbers of models supported		Response not send	LOCAL							REMOTE																
		SX50	SX7 SX60 X700		OFF	OFF2ON	ON	ON2OFF	ON2PMM	PMM	PMM2ON	OFF	OFF2ON	ON										ON2OFF	ON2PMM	PMM	PMM2ON	
														Input signal														BLANK
														DG	A1	A2	CM	V	SV	DV	SC	X	ON	OFF	ON2OFF	ON2PMM		PMM
60	GET MODE																											
61	GET POWER	-	-																									
62	GET BLANK	x																										
63	GET INPUT	-	-																									
64	GET DOTS																											
65	GET TRACK																											
66	GET HPOS																											
67	GET VPOS																											
68	GET HPIX																											
69	GET VPIX																											
70	GET SEL																											
71	GET ASPECT																											
72	GET IMAGE																											
73	GET BRI																											
74	GET CONT																											
75	GET SHARP																											
76	GET GAMMA																											
77	GET DGAMMA																											
78	GET PROG																											
79	GET WB																											
80	GET WBRGB																											
81	GET SAT																											
82	GET HUE																											
83	GET RGBGAIN	x																										
84	GET RGBOFFSET	x																										
85	GET ACADJUST		x																									
86	GET MEMCADJ	x																										
87	GET 6AXADJ	x																										
88	GET 6AXR - Y																											
89	GET VKS	-	-																									
90	GET HKS	-	-																									
91	GET AVOL																											
92	GET MUTE	-	-																									
93	GET BVOL																											
94	GET IMAGEFLIP																											
95	GET PMM																											
96	GET PJON																											
97	GET NOSIG																											
98	GET NOSHOW																											
99	GET LOGOPOS																											
100	GET LANG																											
101	GET LAMP																											
102	GET TERMINAL		x																									
103	GET KEYLOCK																											
104	GET RCCH																											
105	GET GUIDE	x																										
106	GET DPON	x																										
107	GET LEDILLUMINATE	x																										
112	GET NOSHOWSTATE	x																										
113	GET FREEZE	x																										
114	GET SIGNALSTATUS	-	-																									
115	GET LAMPCOUNTER	-	-																									
116	GET ERR	-	-																									
117	GET PRODCODE	-	-																							</		

[illegible]

Response	
	OK or Normal response
	BUSY
	INVALID_MODE
	INVALID_SOURCE
	NO_SIGNAL
	NOT_POWER_SUPPLIED
	BAD_SEQUENCE
	NO_BLANK
	INPUT_NOT_FOUND
	No response

Status	
OFF	Power Off
OFF2ON	Transitioning from power off on
ON	Power ON
ON2OFF	Transitioning from power on off
ON2PMM	Transitioning from power on standby mode
PMM	Standby
PMM2ON	Transitioning from standby power on

Input signal			
DG	Digital RGB	V	Video
A1	Analog RGB1	SV	S-Video
A2	Analog RGB2	DV	Digital Video
CM	Component	SC	SCART
V	Video	x	No signal
SV	S-Video		