



RS-232C Specifications and Command Settings

PC control

A computer can be used to control the projector by connecting an RS-232C serial control cable (cross type, sold separately) to the projector. (See page 27 for connection.)

Communication conditions

Set the serial port settings of the computer to match that of the table.

Signal format: Conforms to RS-232C standard.

Parity bit: None

Baud rate: 9,600 bps

Stop bit: 1 bit

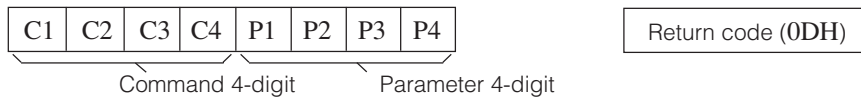
Data length: 8 bits

Flow control: None

Basic format

Commands from the computer are sent in the following order: command, parameter, and return code. After the projector processes the command from the computer, it sends a response code to the computer.

Command format



Response code format



Info

- When controlling the projector using RS-232C commands from a computer, wait for at least 30 seconds after the power has been turned on, and then transmit the commands.
- When more than one code is being sent, send each command only after the response code for the previous command from the projector is verified.





CONTROL CONTENTS	COMMAND	PARAMETER	RETURN	
			Power ON	Standby mode (or 40-second startup time)
Power Off	P O W R	- - - 0	OK or ERR	OK
Power On	P O W R	- - - 1	OK	OK or ERR
Power Status	P O W R	? ? ? ?	1	0
Projector Condition	T A B N	- - - 1	0 : Normal, 1 : Temp High, 8 : Lamp Life 5% or less, 16 : Lamp Burnt-out, 32 : Lamp Ignition Failure	0 : Normal, 1 : Temp High, 2 : Fan Error, 4 : Lamp Cover Open, 8 : Lamp Life 5% or less, 16 : Lamp Burnt-out, 32 : Lamp Ignition Failure, 64 : Temp Abnormally High
Lamp 1 Status	T L P S	- - - 1	0 : Off, 1 : On, 2 : Retry, 3 : Waiting, 4 : Lamp Error	0 : Off, 4 : Lamp Error
Lamp Power Status	T P O W	- - - 1	1 : On, 2 : Cooling	0 : Standby
Lamp Quantity	T L P N	- - - 1	1	
Lamp Usage Time (Hour)	T L T T	- - - 1	0 – 9999 (Integer)	
Lamp Life (Percentage)	T L T L	- - - 1	0% – 100% (Integer)	
Model Name Check	T N A M	- - - 1	XR10S / XR10X / XR20S / XR20X	
Model Name Check	M N R D	- - - 1	XR-10S / XR-10X / XR-20S / XR-20X	
Serial No. Check *1	S N R D	- - - 1	Serial No.	
Projector Name Setting 1 (First four characters) *2	P J N 1	* * * *	OK or ERR	
Projector Name Setting 2 (Middle four characters) *2	P J N 2	* * * *	OK or ERR	
Projector Name Setting 3 (Last four characters) *2	P J N 3	* * * *	OK or ERR	
Projector Name Check	P J N 0	- - - 1	Projector Name	
INPUT 1 (RGB1)	I R G B	- - - 1	OK or ERR	ERR
INPUT 2 (RGB2)	I R G B	- - - 2	OK or ERR	ERR
INPUT RGB Check	I R G B	? ? ? ?	1 : RGB1 (INPUT1), 2 : RGB2 (INPUT2), ERR	ERR
INPUT 3 (Video1)	I V E D	- - - 1	OK or ERR	ERR
INPUT 4 (Video2)	I V E D	- - - 2	OK or ERR	ERR
INPUT Video Check	I V E D	? ? ? ?	1 : Video1 (INPUT3), 2 : Video2 (INPUT4), ERR	ERR
INPUT Mode Check	I M O D	? ? ? ?	1 : RGB, 2 : Video	ERR
INPUT Check	I C H K	? ? ? ?	1 : INPUT1, 2 : INPUT2, 3 : INPUT3, 4 : INPUT4	ERR
INPUT 1 Adjustment Reset	R A R E	- - - 1	OK or ERR	ERR
INPUT 2 Adjustment Reset	R B R E	- - - 1	OK or ERR	ERR
INPUT 3 Adjustment Reset	V A R E	- - - 1	OK or ERR	ERR
INPUT 4 Adjustment Reset	V B R E	- - - 1	OK or ERR	ERR
All Reset	A L R E	- - - 1	OK or ERR	ERR
Volume (0 – 60)	V O L A	- - * *	OK or ERR	ERR
Volume up / down (– 10 – + 10)	V O U D	- * * *	OK or ERR	ERR
Keystone (– 127 – + 127)	K E Y S	- * * *	OK or ERR	ERR
AV Mute Off	I M B K	- - - 0	OK or ERR	ERR
AV Mute On	I M B K	- - - 1	OK or ERR	ERR
Freeze Off	F R E Z	- - - 0	OK or ERR	ERR
Freeze On	F R E Z	- - - 1	OK or ERR	ERR
Auto Sync Start	A D J S	- - - 1	OK or ERR	ERR
INPUT 1 Resize : Normal	R A S R	- - - 1	OK or ERR	ERR
INPUT 1 Resize : Stretch	R A S R	- - - 2	OK or ERR	ERR
INPUT 1 Resize : Border (Video only)	R A S R	- - - 6	OK or ERR	ERR
INPUT 2 Resize : Normal	R B S R	- - - 1	OK or ERR	ERR
INPUT 2 Resize : Stretch	R B S R	- - - 2	OK or ERR	ERR
INPUT 2 Resize : Border (Video only)	R B S R	- - - 6	OK or ERR	ERR
INPUT 3 Resize : Normal	R A S V	- - - 1	OK or ERR	ERR
INPUT 3 Resize : Stretch	R A S V	- - - 2	OK or ERR	ERR
INPUT 3 Resize : Border	R A S V	- - - 3	OK or ERR	ERR
INPUT 4 Resize : Normal	R B S V	- - - 1	OK or ERR	ERR
INPUT 4 Resize : Stretch	R B S V	- - - 2	OK or ERR	ERR
INPUT 4 Resize : Border	R B S V	- - - 3	OK or ERR	ERR
INPUT 1 Picture Mode : Standard	R A P S	- - - 1	OK or ERR	ERR



RS-232C Specifications and Command Settings (Continued)

CONTROL CONTENTS	COMMAND	PARAMETER	RETURN	
			Power ON	Standby mode (or 40-second startup time)
INPUT 1 Picture Mode : Presentation	R A P S	- 1 1	OK or ERR	ERR
INPUT 1 Picture Mode : Movie	R A P S	- 1 2	OK or ERR	ERR
INPUT 1 Picture Mode : Game	R A P S	- 1 3	OK or ERR	ERR
INPUT 1 Picture Mode : sRGB	R A P S	- 1 4	OK or ERR	ERR
INPUT 1 Contrast (-30 - +30)	R A P I	- * * *	OK or ERR	ERR
INPUT 1 Bright (-30 - +30)	R A B R	- * * *	OK or ERR	ERR
INPUT 1 Color (-30 - +30)	R A C O	- * * *	OK or ERR	ERR
INPUT 1 Tint (-30 - +30)	R A T I	- * * *	OK or ERR	ERR
INPUT 1 Red (-30 - +30)	R A R D	- * * *	OK or ERR	ERR
INPUT 1 Blue (-30 - +30)	R A B E	- * * *	OK or ERR	ERR
INPUT 1 Sharp (-30 - +30)	R A S H	- * * *	OK or ERR	ERR
INPUT 1 CLR Temp *3	R A C T	- * * *	OK or ERR	ERR
INPUT 1 Bright Boost (0 - 2)	R A W E	- * * *	OK or ERR	ERR
INPUT 1 Progressive : 2D	R A I P	- - 0	OK or ERR	ERR
INPUT 1 Progressive : 3D	R A I P	- - 1	OK or ERR	ERR
INPUT 1 Progressive : Film Mode	R A I P	- - 2	OK or ERR	ERR
INPUT 1 Signal Type : Auto	I A S I	- - 0	OK or ERR	ERR
INPUT 1 Signal Type : RGB	I A S I	- - 1	OK or ERR	ERR
INPUT 1 Signal Type : Component	I A S I	- - 2	OK or ERR	ERR
INPUT 2 Picture Mode : Standard	R B P S	- 1 0	OK or ERR	ERR
INPUT 2 Picture Mode : Presentation	R B P S	- 1 1	OK or ERR	ERR
INPUT 2 Picture Mode : Movie	R B P S	- 1 2	OK or ERR	ERR
INPUT 2 Picture Mode : Game	R B P S	- 1 3	OK or ERR	ERR
INPUT 2 Picture Mode : sRGB	R B P S	- 1 4	OK or ERR	ERR
INPUT 2 Contrast (-30 - +30)	R B P I	- * * *	OK or ERR	ERR
INPUT 2 Bright (-30 - +30)	R B B R	- * * *	OK or ERR	ERR
INPUT 2 Color (-30 - +30)	R B C O	- * * *	OK or ERR	ERR
INPUT 2 Tint (-30 - +30)	R B T I	- * * *	OK or ERR	ERR
INPUT 2 Red (-30 - +30)	R B R D	- * * *	OK or ERR	ERR
INPUT 2 Blue (-30 - +30)	R B B E	- * * *	OK or ERR	ERR
INPUT 2 Sharp (-30 - +30)	R B S H	- * * *	OK or ERR	ERR
INPUT 2 CLR Temp *3	R B C T	- * * *	OK or ERR	ERR
INPUT 2 Bright Boost (0 - 2)	R B W E	- * * *	OK or ERR	ERR
INPUT 2 Progressive : 2D	R B I P	- - 0	OK or ERR	ERR
INPUT 2 Progressive : 3D	R B I P	- - 1	OK or ERR	ERR
INPUT 2 Progressive : Film Mode	R B I P	- - 2	OK or ERR	ERR
INPUT 2 Signal Type : Auto	I B S I	- - 0	OK or ERR	ERR
INPUT 2 Signal Type : RGB	I B S I	- - 1	OK or ERR	ERR
INPUT 2 Signal Type : Component	I B S I	- - 2	OK or ERR	ERR
INPUT 3 Picture Mode : Standard	V A P S	- 1 0	OK or ERR	ERR
INPUT 3 Picture Mode : Presentation	V A P S	- 1 1	OK or ERR	ERR
INPUT 3 Picture Mode : Movie	V A P S	- 1 2	OK or ERR	ERR
INPUT 3 Picture Mode : Game	V A P S	- 1 3	OK or ERR	ERR
INPUT 3 Contrast (-30 - +30)	V A P I	- * * *	OK or ERR	ERR
INPUT 3 Bright (-30 - +30)	V A B R	- * * *	OK or ERR	ERR
INPUT 3 Color (-30 - +30)	V A C O	- * * *	OK or ERR	ERR
INPUT 3 Tint (-30 - +30)	V A T I	- * * *	OK or ERR	ERR
INPUT 3 Red (-30 - +30)	V A R D	- * * *	OK or ERR	ERR
INPUT 3 Blue (-30 - +30)	V A B E	- * * *	OK or ERR	ERR
INPUT 3 Sharp (-30 - +30)	V A S H	- * * *	OK or ERR	ERR
INPUT 3 CLR Temp *3	V A C T	- * * *	OK or ERR	ERR
INPUT 3 Bright Boost (0 - 2)	V A W E	- * * *	OK or ERR	ERR
INPUT 3 Progressive : 2D	V A I P	- - 0	OK or ERR	ERR
INPUT 3 Progressive : 3D	V A I P	- - 1	OK or ERR	ERR
INPUT 3 Progressive : Film Mode	V A I P	- - 2	OK or ERR	ERR
INPUT 4 Picture Mode : Standard	V B P S	- 1 0	OK or ERR	ERR
INPUT 4 Picture Mode : Presentation	V B P S	- 1 1	OK or ERR	ERR
INPUT 4 Picture Mode : Movie	V B P S	- 1 2	OK or ERR	ERR
INPUT 4 Picture Mode : Game	V B P S	- 1 3	OK or ERR	ERR
INPUT 4 Contrast (-30 - +30)	V B P I	- * * *	OK or ERR	ERR





CONTROL CONTENTS	COMMAND	PARAMETER	RETURN	
			Power ON	Standby mode (or 40-second startup time)
INPUT 4 Bright (-30 - +30)	V B B R	- * * *	OK or ERR	ERR
INPUT 4 Color (-30 - +30)	V B C O	- * * *	OK or ERR	ERR
INPUT 4 Tint (-30 - +30)	V B T I	- * * *	OK or ERR	ERR
INPUT 4 Red (-30 - +30)	V B R D	- * * *	OK or ERR	ERR
INPUT 4 Blue (-30 - +30)	V B B E	- * * *	OK or ERR	ERR
INPUT 4 Sharp (-30 - +30)	V B S H	- * * *	OK or ERR	ERR
INPUT 4 CLR Temp *3	V B C T	- * * *	OK or ERR	ERR
INPUT 4 Bright Boost (0 - 2)	V B W E	- * *	OK or ERR	ERR
INPUT 4 Progressive : 2D	V B I P	- - - 0	OK or ERR	ERR
INPUT 4 Progressive : 3D	V B I P	- - - 1	OK or ERR	ERR
INPUT 4 Progressive : Film Mode	V B I P	- - - 2	OK or ERR	ERR
Clock (-150 - +150)	I N C L	- * * *	OK or ERR	ERR
Phase (-60 - +60)	I N P H	- * * *	OK or ERR	ERR
H-Position (-150 - +150)	I A H P	- * * *	OK or ERR	ERR
V-Position (-60 - +60)	I A V P	- * * *	OK or ERR	ERR
Fine Sync Adjustment Reset	I A R E	- - - 1	OK or ERR	ERR
Auto Sync : Off	A A D J	- - - 0	OK or ERR	ERR
Auto Sync : On	A A D J	- - - 1	OK or ERR	ERR
Internal Speaker : Off	A S P K	- - - 0	OK or ERR	ERR
Internal Speaker : On	A S P K	- - - 1	OK or ERR	ERR
Image Shift (-96 - +96 (XGA) / -75 - +75 (SVGA))	L N D S	- * * *	OK or ERR	ERR
OSD Display : Off	I M D I	- - - 0	OK or ERR	ERR
OSD Display : On	I M D I	- - - 1	OK or ERR	ERR
Video System Selection : AUTO	M E S Y	- - - 1	OK or ERR	ERR
Video System Selection : PAL	M E S Y	- - - 2	OK or ERR	ERR
Video System Selection : SECAM	M E S Y	- - - 3	OK or ERR	ERR
Video System Selection : NTSC4.43	M E S Y	- - - 4	OK or ERR	ERR
Video System Selection : NTSC3.58	M E S Y	- - - 5	OK or ERR	ERR
Video System Selection : PAL_M	M E S Y	- - - 6	OK or ERR	ERR
Video System Selection : PAL_N	M E S Y	- - - 7	OK or ERR	ERR
Video System Selection : PAL-60	M E S Y	- - - 8	OK or ERR	ERR
Background Selection : Logo	I M B G	- - - 1	OK or ERR	ERR
Background Selection : Blue	I M B G	- - - 3	OK or ERR	ERR
Background Selection : None	I M B G	- - - 4	OK or ERR	ERR
Lamp Setting : Bright	T H M D	- - - 0	OK or ERR	ERR
Lamp Setting : Eco + Quiet	T H M D	- - - 1	OK or ERR	ERR
Auto Search : Off	I N S E	- - - 0	OK or ERR	ERR
Auto Search : On	I N S E	- - - 1	OK or ERR	ERR
Auto Power Off : Off	A P O W	- - - 0	OK or ERR	ERR
Auto Power Off : On	A P O W	- - - 1	OK or ERR	ERR
Auto Keystone : Off	A T K S	- - - 0	OK or ERR	ERR
Auto Keystone : On	A T K S	- - - 1	OK or ERR	ERR
PRJ Mode : Reverse Off	I M R E	- - - 0	OK or ERR	ERR
PRJ Mode : Reverse On	I M R E	- - - 1	OK or ERR	ERR
PRJ Mode : Invert Off	I M I N	- - - 0	OK or ERR	ERR
PRJ Mode : Invert On	I M I N	- - - 1	OK or ERR	ERR
Language Selection : ENGLISH	M E L A	- - - 1	OK or ERR	ERR
Language Selection : DEUTSCH	M E L A	- - - 2	OK or ERR	ERR
Language Selection : ESPAÑOL	M E L A	- - - 3	OK or ERR	ERR
Language Selection : NEDERLANDS	M E L A	- - - 4	OK or ERR	ERR
Language Selection : FRANÇAIS	M E L A	- - - 5	OK or ERR	ERR
Language Selection : ITALIANO	M E L A	- - - 6	OK or ERR	ERR
Language Selection : SVENSKA	M E L A	- - - 7	OK or ERR	ERR
Language Selection : 日本語	M E L A	- - - 8	OK or ERR	ERR
Language Selection : PORTUGUÊS	M E L A	- - - 9	OK or ERR	ERR
Language Selection : 汉语	M E L A	- - - 10	OK or ERR	ERR
Language Selection : 한국어	M E L A	- - - 11	OK or ERR	ERR
Setup Guide : Off	S E G U	- - - 0	OK or ERR	ERR
Setup Guide : On	S E G U	- - - 1	OK or ERR	ERR



RS-232C Specifications and Command Settings (Continued)

CONTROL CONTENTS	COMMAND	PARAMETER	RETURN	
			Power ON	Standby mode (or 40-second startup time)
System Sound : Off	S S N D	__ _ _ 0	OK or ERR	ERR
System Sound : On	S S N D	__ _ _ 1	OK or ERR	ERR
RGB Horizontal Frequency Check	T F R Q	__ _ _ 1	x10 ¹ kHz (**.* or ERR)	ERR
RGB Vertical Frequency Check	T F R Q	__ _ _ 2	Hz (**.* or ERR)	ERR
Fan Mode : Normal	H L M D	__ _ _ 0	OK or ERR	
Fan Mode : High	H L M D	__ _ _ 1	OK or ERR	

Note

- If an underbar (_) appears in the parameter column, enter a space.
- If an asterisk (*) appears in the parameter column, enter a value in the range indicated in brackets under Control Contents.

*1 Serial No. Check command is used to read out the 12 digits of serial No..

*2 For setting the projector name, send the commands in order of PJN1, PJN2 and PJN3.

*3 Parameters of CLR Temp settings are as follows.

CLR Temp	Parameter	CLR Temp	Parameter
5500K	_0 5 5	8500K	_0 8 5
6500K	_0 6 5	9300K	_0 9 3
7500K	_0 7 5	10500K	_1 0 5

Info

- "POWR?????" "TABN ___ 1" "TLPS ___ 1" "TPOW ___ 1" "TLPN ___ 1" "TLTT ___ 1"
"TLTL ___ 1" "TNAM ___ 1" "MNRD ___ 1" "SNRD ___ 1" "PJN0 ___ 1"

When the projector receives a command shown above:

* The on-screen display will not disappear.

* The "Auto Power Off" timer will not be reset.

