

# ESC/VP21 Command User's Guide for Business Projectors

## Table of Contents

1. Introduction to ESC/VP21 .....	3
2. ESC/VP21 Command Formats.....	4
3. Applicable models .....	4
4. Projector state and commands.....	5
5. Command transmission timing .....	5
6. Error Status .....	7
7. Command list and applicable models.....	8
8. Command Details .....	12
9. Appendix.....	22
10. Revision History.....	24

### Copyright Notice:

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, or otherwise, without the prior written permission of SEIKO EPSON CORPORATION. No patent liability is assumed with respect to the use of the information contained herein. Neither is any liability assumed for damages resulting from the use of the information contained herein.

Neither SEIKO EPSON CORPORATION nor its affiliates shall be liable to the purchase of this product or third parties for damages, losses, costs, or expenses incurred by purchaser or third parties as a result of: accident, misuse, or abuse of this product or unauthorized modifications, repairs, or alterations to this product, or (excluding the U.S.) failure to strictly comply with SEIKO EPSON CORPORATION(s) operating and maintenance instructions.

SEIKO EPSON CORPORATION shall not be liable against any damages or problems arising from the use of any options or any consumable products other than those designated as Original EPSON Products or EPSON Approved Products by SEIKO EPSON CORPORATION.

EPSON is a registered trademark of SEIKO EPSON CORPORATION. EasyMP is a trademark of SEIKO EPSON CORPORATION. Macintosh, Mac, and iMac are registered trademarks of Apple Computer, Inc. IBM is a registered trademark of International Business Machines Corporation. Windows and Windows NT are registered trademarks of Microsoft Corporation in the United States of America.

### General Notice:

Other product names used herein are also for identification purposes only and may be trademarks of their respective owner. EPSON disclaims any and all rights in those marks.

©SEIKO EPSON CORPORATION 2003-2011. All rights reserved.

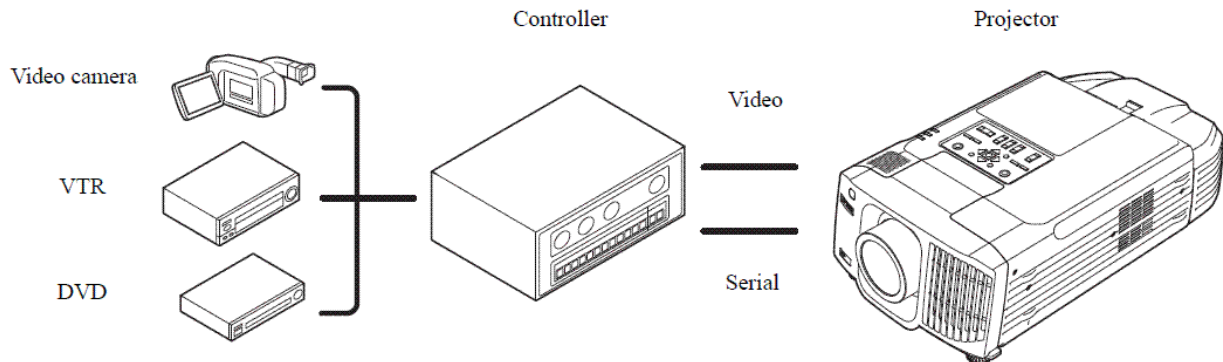
## 1. Introduction to ESC/VP21

ESC/VP21 is a control command and protocol for Epson projectors, which is used for A/V controller to control and monitor Epson projectors. The command codes are comprised of ASCII codes. Therefore the command codes can be understood very easily and you can easily control projectors using a PC with a terminal emulator such as Microsoft Hyper terminal.

Since ESC/VP21 is independent of communication protocols. Serial, USB or TCP/IP network can be used to transmit the commands to projectors.

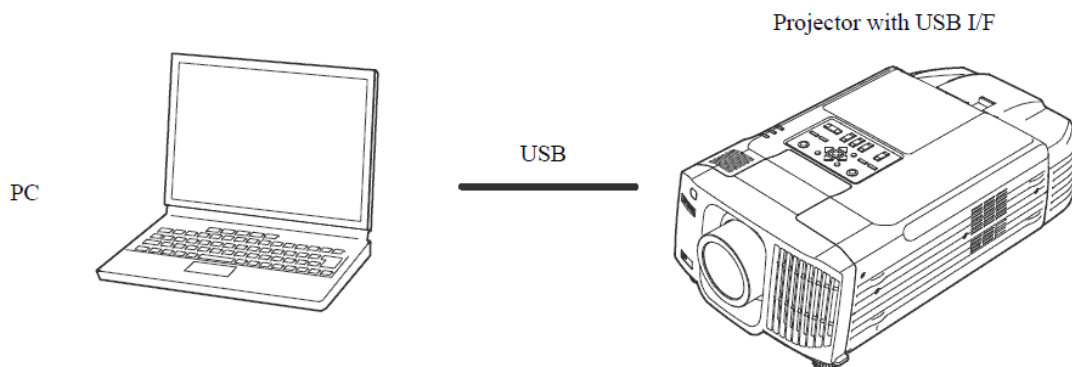
### \* Serial connection

A/V controller normally use as serial connection to control projectors. Refer to Appendix for details.



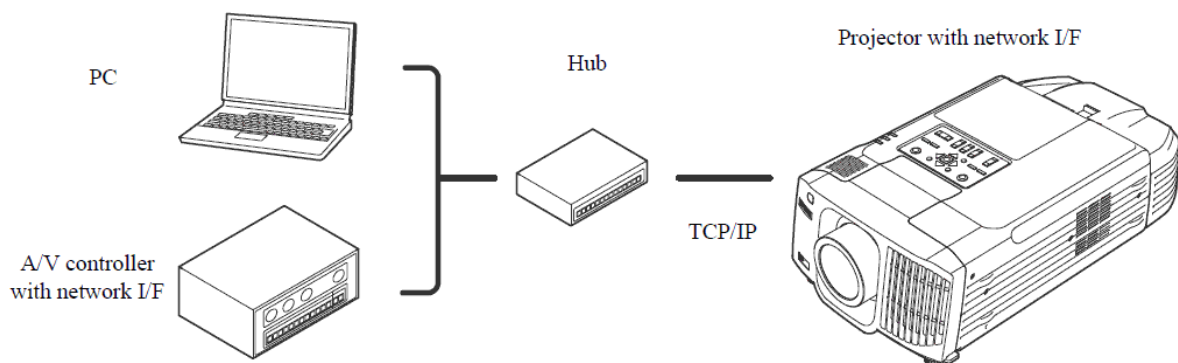
### \* USB connection

A USB interface can be used to control a projector. Refer to Appendix for details.



### \* Network connection

After establishing a TCP session, ESC/VP21 commands can be sent to projectors. Refer to ESC/VP.net protocol manual



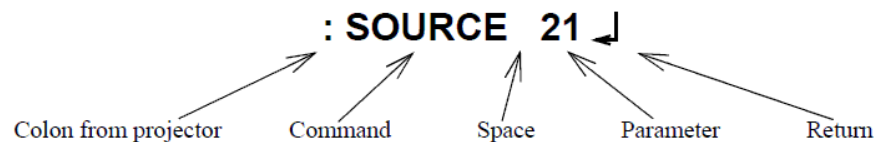
## 2. ESC/VP21 Command Formats

### 2.1. Set command format

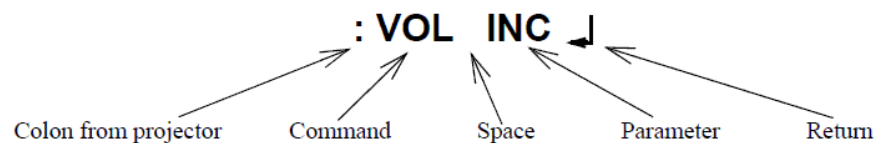
A set command consists of a command and a parameter. Projector returns a colon after executing the command. There are two types of parameters. One is fixed such as ON, OFF, or 21. Other is a step parameter such as INC, DEC or INIT.

INC: increments the parameter by one.  
DEC: decrements the parameter by one.  
INIT: initializes the parameter.

Set command example 1



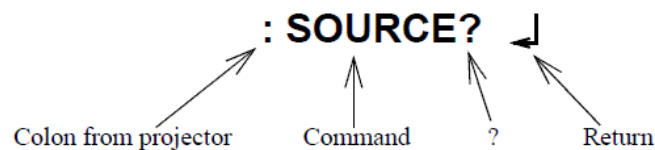
Set command example 2



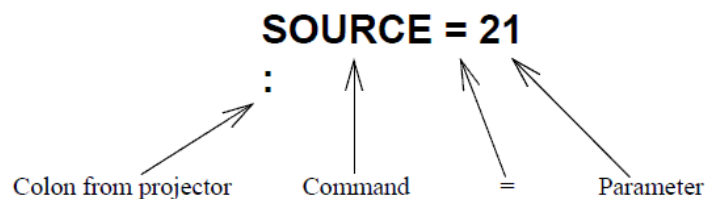
### 2.2. Get command format

A get command consists of a command and ?. Projector returns a response parameter after executing the command.

Get command example



Response parameter example



### 2.3. Null command

The null command is as command code of the return key code (Hex 0D). Projector returns a colon. The null command can be used to confirm that the projector is in operation.

### 2.4. Illegal commands

Projector returns "ERR" and a return key code (Hex 0D) and a colon when it receives invalid commands.

**ERR**  
↵  
:

## 3. Applicable models

EMP-600/800/8110/811/820, 30/52, 720/730/520, 73/83/74/54, 735, 8300/9300, 7800/7850, S1/S1H, 61/81, 830/835, 740/745/732/737, 821/828, 7900/7950, S3/S4, 765/760, 755/750, 62/82/X3, 1715/1710/1705/1700, 6000/6100, 1815/1810, S5/X5/83/822, 260/280, 6010/6110, 400W/410W, 83+/822+, 1825/, EX90, G5350/G5300/G5150/G5100/G5200W/G5000, S6/X6/W6, 1735W/1730W/1725/1720, Z80000WU/Z8050W, S7/X7/W7, S8/X8/W8, 1830/1900/1910/1915/1920W/1925W, 440W, 450W/We/Wi, 460/e/i, 84H/He/L, 85H/HV, 824H, 825H/HV, 826WH/WHV, 84+, 85+, 825+/826W+, S10/W10/X10, S9/X9/W9, S92/X92, 1760W/1770W/1775W/1750, G5950/G5900/G5800/G5650W/G5600/G5500/G5750WU/G5450WU, 455Wi/465i/465T, 93/95/96W/900/910W/905/915W/925

## 4. Projector state and commands

### 4.1. Standby state (Operation indicator is in orange)

When a projector is in a standby state, executable commands depends on projector models and standby configuration (network on, network off). Refer to the following table.

	Models	Configuration	Executable commands
	61/81, 830/835, 821/828 740/745/732/737, 760/765 S3/S4, 765/760/755/750 62/82/X3(76), 6100/6000 1715/1710/1705/1700 1815/1810/1825 S5/X5/83/822/823/83+/822+, 260/280, 400W/410W G5350/G5300/G5100/G5200W/ G5150/G5000, 6110/6010, 1735W/1730W/1725/1720 84/85/824/825/826W Z8000WU/Z8050W S7/X7/W7, S8/X8/W8 1900/1910/1915/1920W/1925W 84H/85H/825H/826H 440W/450W/460 , and later model	Network on/off	PWR ON PWR? LAMP?
(note1)	7800/7850 8300/8350/9300	Network on	PWR ON, PWR?, SOURCE?, Null command(note1)
	7900/7950 (note3)	Network off	PWR ON(Note2)
	Others	-	

EMP-61/81/830/835/740/745/821/828 returns "ERR" when it received commands other than PWR ON, PWR?, LAMP? and Null commands.

(note2) EMP-7800/7850 returns "ERR" when it received commands other than PWR ON, PWR?, SOURCE? and Null commands.

(note3) EMP-8300/9300 returns "ERR" when it received commands other than PWR ON, SOURCE xx, PWR?, SOURCE? and Null commands

All projectors returns "ERR" when the command format is not good. All projectors returns "ERR" when the projector is not ready to reply the command. A null command is command name for "ENTER" or "RETURE" key of the keyboard the reply is ":".

### 4.2. Power on state (Operation indicator is in green)

All commands are executable.

## 5. Command transmission timing

### 5.1. Standby state

1). For all mode with the standby configuration of "network on"

The first command can be sent anytime and the subsequent commands should be sent after receiving a colon from the projector.

2). Other than 1)

PWR ON can be sent any time.

### 5.2. Power on state

A command should be sent after receiving the colon of the previous command from the projector. The following is an exception. When the PWR OFF command is sent to 7800/7850/8300/9300 with the standby configuration of "network off", the subsequent command should be sent 10 seconds after the colon is received.

In case that you can not wait for the colon and send a command after receiving it, instead send a command after the execution time listed in the following table.

Command	Models	Execution time
PWR ON	Others	40seconds
	830/835(note5) 7900/7950/740/745	20seconds
	61/81/821/S3/S4	25seconds
PWR OFF (note4)	600/800/810/811/820	130seconds
	Others	50seconds
	740745, 732/737, 821	20seconds
	S3/S4, 765/760/755/750, 830/835 82, 6100, 1715/1710/1705/1700, 1815/1810/1825, X5/822/823, 400W/410W, G5350/G5100/G5200W S6/X6/W6,1735W/1730W/1725/1720, 84/85/824/825/826W, and later model	10seconds
SOURCE (note3)	-	5seconds (note2)
All others	-	3seconds

(note1) When a projector receives the PWR ON command, it tries to ignite the lamp by activating the ballast unit. In case that the lamp fails to be ignited, it tries to ignite the lamp three times at maximum. When the lamp fails to be ignited three times, it is a lamp failure.

The projector returns a colon within 40, 70 and 100 seconds when successful in the first, second and third times respectively.

(note2) When the input vide sync signal is stable, a colon is returned within 5 seconds. However, it may take more than 5 seconds when the input video sync signal is unstable.

(note3) Projector initiates the process of the input video signal recognition when it receives a SOURCE command. If the signal of the video input is changing (for example, from SVGA to XGA by A/V controller) during the process of the input video signal recognition, the projector returns "ERR".

(note4) Projectors execute the PWR OFF command after they start completely.

(note5) Projectors might return "ERR" when "Quick Setup" and "Auto Focus" functions are set to ON.

### 5.3. Warning and abnormal cases

Projector executes commands normally while a warning indicator such as a high temperature warning is on.

Projector does not execute commands nor return a colon when the projector is in an abnormal state such as a lamp failure and abnormal high temperature.

As for EMP-6100/6000, EMP-1715/1710/1705/1700, EMP-1815/1810, EMP-S5/X5/83/822 and the following models, when an abnormal state is continued for 130 seconds after, PWR ON command becomes possible.

## 6. Error Status

A projector returns the error status when a projector receives "ERR?" command.

The following projectors can return the error status while the projectors become the error status after cooling down.

EMP-1700/1705/1710/1715, 6000/6100/6110/6010, 1815/1810/1825, S5/X5/83/  
EB-G5000/G5100/G5150/G5200W/G5300/G5350

And later models.

[The other models except the above models]

The models except the above models can return the error status while the projectors

The following table shows the return codes and the meaning of error status.

Command	Return code
ERR?	00 : There is no error or the error is recovered
	01 : Fan error
	03 : Lamp failure at power on
	04 : High internal temperature error
	06 : Lamp error
	07 : Open Lamp cover door error
	08 : Cinema filter error
	09 : Electric dual-layered capacitor is disconnected
	0A : Auto iris error
	0B : Subsystem Error
	0C : Low air flow error
	0D : Air filter air flow sensor error
	0E : Power supply unit error (Ballast)
	0F : Shutter error
	10 : Cooling system error (peltiert element)
	11 : Cooling system error (Pump)

## 7. Command list and applicable models

### 7.1. Command table 1 (Fixed parameter)

(O: Supported - : Not supported)

Function	Command	600/800/ 810/811/ 820	720/ 730/ 520/ 735	30/ 52	73/ 53/ 74/ 54	8300/ 8350/ 9300	7800/ 7850/ 7900/ 7950	S1/ S1H	61/ 81	830/ 835
Power	PWR	O	O	O	O	O	O	O	O	O
Input source	SOURCE	O	O	O	O	O	O	O	O	O
PinP setting	PINP	O	-	-	-	O	O	-	-	O
A/V Mute Screen	MSEL	O	O	O	O	O	O	O	O	O
Auto Keystone	AUTOKEystone	-	O	-	O	-	O	-	O	O
Aspect setting	ASPECT	-	-	-	O	O	O	O		O
Color mode	CMODE	O	O	O	O	O	O	O	O	O
Lamp hour	LAMP?	O	O	O	O	O	O	O	O	O
Brightness level	LUMINANCE	-	-	-	O	O	O	-	O	O
A/V Mute	MUTE	O	O	O	O	O	O	O	O	O
Freeze	FREEZE	-	O	O	O	O	O	O	O	O
Rear projection	HREVERSE	O	O	O	O	O	O	O	O	O
Ceiling	VREVERSE	O	O	O	O	O	O	O	O	O
Audio input	AUDIO	O	-	O	O	-	O	-	-	-
Key operation	KEY	O	O	O	O	O	O	O	O	O

Function	Command	740/745 732/737 760/765 755/750	821 828	S3 X3 S4	62 82	6100 6000	1715/ 1710/ 1705/ 1700	1812/ 1810/ 1825	S5/X5 83/822 83+/ 822+ EX90	260 280
Power	PWR	O	O	O	O	O	O	O	O	O
Input source	SOURCE	O	O	O	O	O	O	O	O	O
PinP setting	PINP	-	-	-	-	-	-	-	-	-
A/V Mute Screen	MSEL	O	O	O	O	O	O	O	O	O
Auto Keystone	AUTOKEystone	O	O		O	-	-	-	O no S5	O no 260
Aspect setting	ASPECT	O	-O	O	O	O	O	O	O	O
Color mode	CMODE	O	O	O	O	O	O	O	O	O
Lamp hour	LAMP?	O	O	O	O	O	O	O	O	O
Brightness level	LUMINANCE	O	O	O	O	O	O	O	O	O
A/V Mute	MUTE	O	O	O	O	O	O	O	O	O
Freeze	FREEZE	O	O	O	O	O	O	O	O	O
Rear projection	HREVERSE	O	O	O	O	O	O	O	O	O
Ceiling	VREVERSE	O	O	O	O	O	O	O	O	O
Audio input	AUDIO	-	-	-	-	O	-	-	-	-
Key operation	KEY	O	O	O	O	O	O	O	O	O
Closed Caption	CCAP	-	-	-	-	O	-	-	-	-
Air filter alarm timer	FLWARNING	-	-	-	-	O	-	-	-	-
Air filter timer	FLTIME	-	-	-	-	O	-	-	-	-
Air filter usage time	FILTER	-	-	-	-	O	-	-	-	-



# ESC/VP21 Command User's Guide for Business Projectors

Function	Command	G5350 G5300 G5200W G5150 G5100 G5000	S6/S62 X6/ W6	1735W/ 1730W/ 1725/ 1720	84/85/ 824/825 826W	Z8000WU Z8050W	S7/X7/ W7 S8	X8/ W8	1910/ 1915/ 1920W/ 1925W
Power	PWR	O	O	O	O	O	O	O	O
Input source	SOURCE	O	O	O	O	O	O	O	O
PinP setting	PINP	-	-	-	-	-	-	-	-
A/V Mute Screen	MSEL	O	O	O	O	O	O	O	O
Auto Keystone	AUTOKEystone	-	O X6,W6 Only	O	O	-	-	O	O
Aspect setting	ASPECT	O	O	O	O	O	O	O	O
Color mode	CMODE	O	O	O	O	O	O	O	O
Lamp hour	LAMP?	O	O	O	O	O	O	O	O
Brightness level	LUMINANCE	O	O	O	O	O	O	O	O
A/V Mute	MUTE	O	O	O	O	O	O	O	O
Freeze	FREEZE	O	O	O	O	O	O	O	O
Rear projection	HREVERSE	O	O	O	O	O	O	O	O
Ceiling	VREVERSE	O	O	O	O	O	O	O	O
Audio input	AUDIO	-	-	-	-	-	-	-	-
Key operation	KEY	O	O	O	O	O	O	O	O
Closed Caption	CCAP								
Air filter alarm timer	FLWARNING	-	-	-	-	-	-	-	-
Air filter timer	FLTIME	-	-	-	-	-	-	-	-
Air filter usage time	FILTER	-	-	-	-	-	-	-	-
Serial Number	SNO?	-	-	-	O	O	-	-	O

Function	Command	460/e/i 450W/e/i 440W 455Wi 465i 465T	825H/HV, 826WH/W HV, 85+, 825+, 824H 84H/He/L 84+	S10	W10/X10	S9/X9/W9 S92/X92	1760W 1770W 1775W 1750 1750G	G5950 G5900 G5800 G5650W G5600 G5500 G5750WU G5450WU	93 95 96W 900 910W 905 915W 925
Power	PWR	O	O	O	O	O	O	O	O
Input source	SOURCE	O	O	O	O	O	O	O	O
A/V Mute Screen	MSEL	O	O	O	O	O	O	O	O
Auto Keystone	AUTOKEystone	-	O	-	O	-	O	-	O
Aspect setting	ASPECT	O	O	O	O	O	O	O	O
Color mode	CMODE	O	O	O	O	O	O	O	O
Lamp hour	LAMP?	O	O	O	O	O	O	O	O
Brightness level	LUMINANCE	O	O	O	O	O	O	O	O
A/V Mute	MUTE	O	O	O	O	O	O	O	O
Freeze	FREEZE	O	O	O	O	O	O	O	O
Rear projection	HREVERSE	O	O	O	O	O	O	O	O
Ceiling	VREVERSE	-	O	O	O	O	O	O	O
Audio input	AUDIO	O	-	O	O	O	O	O W/O 5800/5500	O
Key operation	KEY	O	O	O	O	O	O	O	O
Closed Caption	CCAP	O	O	-	-	O	O	O	O
Air filter alarm timer	FLWARNING	-	-	-	-	-	-	-	-
Air filter timer	FLTIME	-	-	-	-	-	-	-	-
Air filter usage time	FILTER	-	-	-	-	-	-	-	-
Serial Number	SNO?	O	O	-	-	-	O	O	O

## 7.2. Command table 2 (Step parameter)

Function	Command	600/800/ 810/811/ 820	720/ 730/ 520/ 735	30/ 52	73/ 53/ 74/ 54	8300/ 8350/ 9300	7800/ 7850/ 7900/ 7950	S1/ S1H	61/ 81	830/ 835
Adjust the volume	VOL	O	O	O	O	O	O	O	O	O
Adjust the treble setting (Adjust the tone setting)	TONEH	-	-	-	-	-	-	-	-	-
Adjust the bass setting	TONEL	-	-	-	-	-	-	-	-	-
Set brightness	BRIGHT	O	O	O	O	O	O	O	O	O
Set contrast	CONTRAST	O	O	O	O	O	O	O	O	O
Set tint	TINT	O	O	O	O	O	O	O	O	O
Set vertical keystone value	VKEYSTONE	O	O	O	O	O	O	O	O	O
Set horizontal keystone value	HKEYSTONE	O	-	-	-	-	O	-	-	O

Function	Command	740/745 732/737 760/765 755/750	821 828	S3/ S4 62/82	6100 6000	6110 6010	1715/ 1710/ 1705/ 1700	1815/ 1810/ 1825	X5/ 822/ 83/83+ 822+ EX90	400W/ 410W
Adjust the volume	VOL	O	O	O	O	O	O	O	O	O
Adjust the treble setting (Adjust the tone setting)	TONEH	-	-	-	-	-	-	-	-	-
Adjust the bass setting	TONEL	-	-	-	-	-	-	-	-	-
Set brightness	BRIGHT	O	O	O	O	O	O	O	O	O
Set contrast	CONTRAST	O	O	O	O	O	O	O	O	O
Set tint	TINT	O	O	O	O	O	O	O	O	O
Set vertical keystone value	VKEYSTONE	O	O	O	O	O	O	O	O	O
Set horizontal keystone value	HKEYSTONE	-	-	-	-	-	-	O	-	-

Function	Command	G5350 G5300 G5150 G5100 G5000 G5200W	S6/S62 X6/W6	1735W 1730W 1725 1720	84/85 824 825 826W	Z8000WU/ Z8050W	S7/S8 X7/X8 W7/W8	1910/ 1915/ 1920W/ 1925W	460/e/i 450W/e/i 440W 455Wi 465i 465T
Adjust the volume	VOL	O	O	O	O	-	O	O	O
Adjust the treble setting (Adjust the tone setting)	TONEH	-	-	-	-	-	-	-	-
Adjust the bass setting	TONEL	-	-	-	-	-	-	-	-
Set brightness	BRIGHT	O	O	O	O	O	O	O	O
Set contrast	CONTRAST	O	O	O	O	O	O	O	O
Set tint	TINT	O	O	O	O	O	O	O	O
Set vertical keystone value	VKEYSTONE	O	O	O	O	O	O	O	O
Set horizontal keystone value	HKEYSTONE	O	-	-	-	O	-	-	-
Adjust the zoom	ZOOM	-	-	-	-	-	-	-	-
Adjust the focus	FOCUS	-	-	-	-	-	-	-	-
Adjust the vertical lens shift	LENS	-	-	-	-	-	-	-	-
Adjust the horizontal lens shift	HLENS	-	-	-	-	-	-	-	-

Function	Command	825H/HV, 826WH/WHV, 85+, 825+, 824H 84H/He/L 84+	S10	W10 X10	S9/X9/W9 S92/X92	1760W 1770W 1775W 1750 1750G	G5950 G5900 G5800 G5650W G5600 G5500 G5750WU G5450WU	93 95 96W 900 910W 905 915W 925
Adjust the volume	VOL	O	O	O	O	O	O w/o 5800/5500	O
Adjust the treble setting (Adjust the tone setting)	TONEH	-	-	-	-	-	-	-
Adjust the bass setting	TONEL	-	-	-	-	-	-	-
Set brightness	BRIGHT	O	O	O	O	O	O	O
Set contrast	CONTRAST	O	O	O	O	O	O	O
Set tint	TINT	O	O	O	O	O	O	O
Set vertical keystone value	VKEYSTONE	O	O	O	O	O	O	O
Set horizontal keystone value	HKEYSTONE	-	-	-	-	O	O	-
Adjust the zoom	ZOOM	-	O	-	O S9 only	-	-	-
Adjust the focus	FOCUS	-	-	-	-	O 1775W only	-	-
Adjust the vertical lens shift	LENS	-	-	-	-	-	-	-
Adjust the horizontal lens shift	HLENS	-	-	-	-	-	-	-

## 8. Command Details

## 8.1. Command table 1 (Fixed parameter)

Set commands	Get commands	Parameter for set (Return code for get)	Models	Function
PWR xx	-	ON	All models	Power ON/OFF
	-	OFF		
	PWR?	00: "Standby" as the time of "Network off"	61/81, 830/835, 740/745/732/737 760/765, 821/828, 7900/7950. S3/S4 755/750, 400W/410W, 6100/6000, 6110/6010, 1715/1710/1705/1700 1815/1810/1825, S5/X5/83/822/83+/822+ G5350/G5300/G5150/ G5100/G5000/G5200W S6/S62/X6/W6, 1735W/1730W/1725/1720 84/85/824/825/826W Z8000WU/Z8050W S7/SX7/W7/S8/X8/W8 1900/1910/1915/1920W/1925W/1830 440W/450W/460, 84H/He/L, 85H/HV,824H, 825H/HV, 826WH/WHV, 84+, 85+, 825+,826W+ S10/X10/W10, S9/X9/W9/S92/X92 1760W/1770W/1775W/1750, G5950/G5900/G5800/G5650W/G5600 G5500/G5750WU/G5450WU,455Wi/465i/465T, 93/95/96W/900/910W/905/915W/925	Return the "Standby" at the time of "Network off" status check.
		01: Power on	All models	Return the power status check
		02: Warm up	6100/6000, 6110/6010, 1715/1710/1705/1700, 1815/1810/1825 S5/X5/83/822/83+/822+, 260/280, S6/S62/X6/W6 G5350/G5300/G5150/G5100/G5000/G5200W 1735W/1730W/1725/1720, 84/85/824/825/826W Z8000WU/Z8050W, S7/X7/W7/S8/X8/W8 1900/1910/1915/1920W/1925W/1830 440W/450W/460, 84H/He/L, 85H/HV,824H, 825H/HV, 826WH/WHV, 84+, 85+, 825+,826W+ S10/X10/W10, S9/X9/W9/S92/X92 1760W/1770W/1775W/1750, G5950/G5900/G5800/G5650W/G5600 G5500/G5750WU/G5450WU,455Wi/465i/465T, 93/95/96W/900/910W/905/915W/925	Return the warm up status check
		03: Cooling down		Return the cooling down status check
		04: "Standby" at the time of "Network on"	7800/7850/7900/7950 8300/8350/9300, 61/81 830/835, 740/745, 760/765, 821/828 755/750, 82, 6100/6000, 1715/1705 1815/1810/1825, 83/822/83+/822+ G5350/G5300/G5150/G5100/G5000/G5200W 1735W/1725, 84/85/824/825/826W Z8000WU/ Z8050W, S7/X7/W7/S8/X8/W8 1900/1910/1915/1920W/1925W/1830 440W/450W/460, 84H/He/L, 85H/HV,824H, 825H/HV, 826WH/WHV, 84+, 85+, 825+,826W+ S10/X10/W10, S9/X9/W9/S92/X92 1760W/1770W/1775W/1750, G5950/G5900/G5800/G5650W/G5600 G5500/G5750WU/G5450WU,455Wi/465i/465T, 93/95/96W/900/910W/905/915W/925	Return the "Standby" at the time of "Network on " status check

# ESC/VP21 Command User's Guide for Business Projectors

		05: Abnormal standby	6100/6000, 1715/1710/1705/1700 1815/1810/1825, X5/822/823 G5350/G5300/G5150/G5100/G5000/G5200W S6/S62/X6/W6, 1735W/1730W/1725/1720 84/85/824/826W Z8000WU/ Z8050W, S7/X7/W7/S8/X8/W8 1900/1910/1915/1920W/1925W/1830 440W/450W/460, 84H/He/L, 85H/HV,824H, 825H/HV, 826WH/WHV, 84+, 85+, 825+,826W+ S10/X10/W10, S9/X9/W9/S92/X92 1760W/1770W/1775W/1750, G5950/G5900/G5800/G5650W/G5600 G5500/G5750WU/G5450WU,455Wi/465i/465T, 93/95/96W/900/910W/905/915W/925	After the fixed time passes, an abnormal standby is returned after this machine is abnormally generated.
--	--	----------------------	---	--

Set commands	Get commands	Parameter for set (Return code of get)	Models	Function
SOURCE xx	SOURCE?	00~FF Refer the "Source code" of attached file "ESC/VP21 all commands list".	All mode that the ESC/VP21 support.	Change the source
PINP [source posX posy size] (Ex) PINP 42_1_2_1	—	Source: Video source of sub-screen (Video or S-video) posX: X coordinate (0-15) of sub-screen from left Horizontal is divided into 16 (default value is used when omitted) posY: Y coordinate (0-15) of sub-screen from top vertical is divided into 16 (default value is used when omitted) size: Size of sub-screen 0-4 incremental zoom (default value is used when 0 or omitted)	600/800/810/811/820 7800/7850 8300/8350/9300 830/835* 7900/7950	Set PinP **830/835" cannot specify a sub-screen. Size should put in "0".
PINP xx	—	OFF		End PinP
MSEL xx	MSEL?	00: Black screen 01: Blue screen 02: User logo	600/800/810/811/820 720/730/520,/735 7800/7850, 8300/9300 61/81, 830/835, 740/745 821, 7900/7950, 732/737 S3/S4, 760/765, 755/750 6100/6000, 6110/6010, 1715/1710/1705/1700, 1815/810/1825 S5/X5/83/822/83+/822+, 260/280, G5350/G5300/G5150/G5100/G5200W/ G5000, S6/S62/X6/W6 1735W/1730W/1725/1720 84/85/824/825/826W S7/X7/W7/S8/X8/W8 1915/1925W/1910/1920W 440W/450W/460, 84H/He/L, 85H/HV,824H, 825H/HV, 826WH/WHV, 84+, 85+, 825+,826W+, 455Wi/465i/465T, S10/X10/W10, S9/X9/W9/S92/X92 1760W/1770W.1775W/1750/1750 G G5950/G5900/G5800/G5650W/G5	Set A/V mute Screen

# ESC/VP21 Command User's Guide for Business Projectors

			600 G5500/G5750WU/G5450WU,455 Wi/465i/465T, 93/95/96W/900/910W/905/915W/9 25	
AUTOKEYSTONE xx	AUTOKEYSTONE?	ON: Auto keystone ON OFF: Auto keystone OFF	73/53/74/54, 735 7800/7850, 61/81, 830/835 740/745/732/737, 821/828 7900/7950, 760/765, 755/750, 62/82, 1715/1710/1705/1700 1815/1810/1825 X5/822/83/83+/822+, 280, X6/W6 1735W/1730W/1725/1720 84/85/824/825/826W, X8/W8, 1915/1925W/1910W/1920W/1830 X10/W10, X9/W9/X92 93/95/96W/900/910W/905/915W/9 25	Set auto keystone on or off
ASPECT xx	ASPECT?	10:4:3 12: zoom 4:3 20: 16:9	74/54, 7800/7850 8300/9300 S1/S1H, 830/835 7900/7950	Set aspect ratio
		10:4:3 20: 16:9	73/53, 735, 740/745, 732/737, S3/S4, 760/765, 755/750, 82, 1715/1710/1705/1700	
		Input signal is PC 00: Normal 10: 4:3 20: 16:9 Input signal is Component/S-Video. 21: 16:9 (Up) 22: 16:9 (Down)	6100/6000, 1815/1810/1825 S5/X5/822/83/822+/83+ S6/X6	
		00: Normal 20: 16:9 30: Auto 40: Full 50: Zoom 60: Through/Real	G5200W W6/W7/W8 1925W 400W/410W Z8000WU/Z8050W 1760W/1770W/1775W W10 G5650W/G5450WU/G5750WU 96W/910W/915W	
		00: Normal 10: 4:3 20: 16:9 60: Real	G5000	
		00: Normal 20: 16:9 40: Full 50: Zoom 60: Through/Real	1735W/1730W 826W 1920W 440W/450W/450WT/450Wi W8/W9 455Wi	
		Input signal is PC 00: Normal 10: 4:3 20: 16:9 Input signal is video 10: 4:320: 16:9	84/85/824/825 S7/X7/S8/ 1910	
		00: Normal 10: 4:3 20: 16:9	1720/1725 824/84/85/825 84H/He/L, 85H/HV,824H, 825H/HV 1830/1900/1910 S8	

			460/460T/460i/460e 1750 S9/S10/X9/S92/X92 455Wi/465i/465T	
		00: Normal 10: 4:3 20: 16:9 30: Auto 60: Real	G5100/G5300/ G5350 G5500/G5600/G5800/G5900/ G5950	
		00: Normal 10: 4:3 20: 16:9 30: Auto	1915 X8/X10 93/95/900/905/925	
CMODE xx	CMODE?	01: sRGB 02: Normal 03: Meeting 04: Presentation 05: Theatre 06: Game	30/52, 73/53, 720/730/520 735, 600/800/810/811/820	Set color mode
		01: sRGB 04: Presentation 05: Theatre 08: Dynamic	7800/7850 8300/9300	
		01: sRGB 04: Presentation 05: Theatre 06: Living Room 08: Dynamic	S1/S1H 830/835 7900/7950	
		01: sRGB 04: Presentation 05: Theatre 08: Dynamic 11: Black Board	54/74 61/81 740/745/732/737 821/828, 760/765 755/750	
		01: sRGB 04: Presentation 05: Theatre 06: Game 08: Sports 11: Black Board 14: Photo	S3/S4 62/82 6100/6000 S5/X5/83/822/83+/822+/EX90 260/280	
		01: sRGB 04: Presentation 05: Theatre 06: Game 08: Sports 10: Custom 11: Black Board 14: Photo	1715/1710/1705/1700 1815/1810/1825	
		01: sRGB 03: Presentation2 04: Presentation 05: Theatre 06: Game 08: Sports 10: Custom 11: Black Board 14: Photo	400W/410W G5350/G5300/G5150/ G5100/G5200W/G5000 6110/6010	

Set commands	Get commands	Parameter for set (Return code of get)	Models	Function
CMODE xx	CMODE?	01: sRGB 03: Presentation2 04: Presentation 05: Theatre 06: Dynamic 08: Sports 10: Custom 11: Black Board 14: Photo	1735W/1730W/1725/1720	Set color mode
		01: sRGB 03: Presentation2 04: Presentation 05: Theatre 06: Dynamic 08: Sports 11: Black Board 14: Photo	X6/W6	
		01: sRGB 04: Presentation 05: Theatre 06: Dynamic 08: Sports 11: Black Board 12: White Board 14: Photo	84/85/824/825/826W	
		01: sRGB 04: Presentation 05: Theatre 06: Dynamic 08: Sports 10: Custom 14: Photo	Z8000WU/Z8050W	
		01: sRGB 04: Presentation 05: Theatre 06: Dynamic 08: Sports 11: Black Board 12: White Board 14: Photo	S7/X7/W7/S8/X8/W8 440W/450W/460, 455Wi/465i/465T, 84H/He/L, 85H/HV,824H, 825H/HV, 826WH/WHV, 84+, 85+, 825+,826W+ S10/X10/W10, S9/X9/W9/S92/X92 93/95/96W/900/910W/905/ 915W/925	
		01: sRGB 04: Presentation 05: Theatre 06: Dynamic 08: Sports 10: Custom 11: Black Board 12: White Board 14: Photo	1830/1900/1910/1915/ 1925W/1920W 1760W/1770W.1775W/1750/1750G	
		01: sRGB 04: Presentation 05: Theatre 06: Dynamic 08: Sports 0F: DICOM SIM 10: Custom 14: Photo	G5950/G5900/G5800/G5650W/ G5600/G5500/G5750WU/G5450WU	



Set commands	Get commands	Parameter for set (Return code of get)	Models	Function
-	LAMP?	0 ~ 65535 Z8000WU/Z8050W: 0~65535_065535(*)	All models	Return the lamp hour *Z8000WU/Z8050W have 2 lamps.
LUMINANCE xx	LUMINANCE?	00: High 01: Low	73/53/74/54, 7800/7850 8300/8350/9300, 61/81 830/835, 740/745, 821 7900/7950, 732/737, S3/S4 760/765, 755/750, 82, 6100 1715/1710/1705/1700 1815/1810/1825, X5/822/823 G5350/G5100/G5200W S6/X6/W6 1735W/1730W/1725/1720 84/85/824/825/826W	Ste brightness level
		00: Normal 01: Eco	Z8000WU/Z8050W S7/X7/W7/S8/X8/W8 1910/1915/1920W/1925W 440W/450W/460 84H/He/L, 85H/HV,824H, 825H/HV, 826WH/WHV, 84+, 85+, 825+,826W+, 455Wi/465i/465T, S10/X10/W10, S9/X9/W9/S92/X92 G5950/G5900/G5800/G5650W/ G5600/G5500/G5750WU/G5450WU 1760W/1770W.1775W/1750/1750G 93/95/96W/900/910W/905/915W/925	
MUTE xx	MUTE?	ON: A/V Mute ON OFF: A/V Mute OFF	All models	Set A/V mute. (Set shutter function in Z8000WU, Z8050W)
FREEZE xx	FREEZE?	ON: FREEZE ON OFF: FREEZE OFF	All models except 600/800/810 /811/820	Set freeze
HREVERSE xx	HREVERSE?	ON: Rear ON OFF: Rear OFF	All models	Set rear projection
VREVERSE xx	VREVERSE?	ON: Ceiling ON OFF: Ceiling OFF	All models	Set ceiling projection
AUDIO xx	AUDIO?	01: Audio 1 (Computer) 02: Audio 2 (Video) 03: USB	600/800/810/811/820	Set audio input
		01: Audio 1 (Computer) 02: Audio 2 (Video)	30/52 73/83/74/54	
		00: Audio 1 (Computer/DVI) 01: Audio 2 (Video) 02: Audio 3 (DVI)	7800/7850 7900/7950	
		01: Audio 1 02: Audio 2	6100	
		01: Audio 1(Internal speaker) 02: Audio 2(External output)	1715/1705 1735W/1725	
KEY xx	-	4A	All models except 600/800/810 /811/820	Perform "Auto-sync" of a remote control button
		47		
CCAP xx	CCAP?	00: OFF 11: CC1 12: CC2 13: CC3 14: CC4 21: TEXT1 22: TEXT2 23: TEXT3	6100/6110	

		24: TEXT4		
		00: OFF 11: CC1 12: CC2	83/822/83+/822+ 400W/410W G5350/G5300/G5150/G5100/ G5000/G5200W 84/85/824/825/826W Z8000WU/Z8050W S7/X7/W7 1830/1900/1910/1915/ 1920W/1925W 84H/He/L, 85H/HV,824H, 825H/HV, 826WH/WHV, 84+, 85+, 825+,826W+ S9/X9/W9/S92/X92 G5950/G5900/G5800/G5650W/ G5600/G5500/G5750WU/G5450WU 1760W/1770W.1775W/1750/1750G 93/95/96W/900/910W/905/915W/925	
FLWARNING xx	FLWARNING?	00: ON 01: OFF	6100/6110	Display setting of warning time of Air filter
FLTIME x1 x2		x1: Object of setting 00: All objects 01: Object 1 02: Object 2 03: Object 3 x2: Set time 0: 1 ~ 100(100H) 1: 101 ~ 200 (200H) I 14: 1401 ~ 9999 (1500H)*	6100/6110	Setting of use time of air filter  *The maximum value depends on the kind of the air filter and the upper bound value is different.
	FILTER?	0 ~ 65535	6100	Acquisition of use time of air filter
ZOOM		MIN: Adjusts it to Tel side continuously. MAX: Adjusts it to Wide side continuously. INC: Adjusts it to Wide side by one step. DEC: Adjusts it to Tel side by one step. OFF: A continuous adjustment is stopped.	Z8000WU/Z8050W	Electric zoom is adjusted.
	ZOOM?	VOID		
FOCUS		MIN: Adjusts it to short focus side continuously. MAX: Adjusts it to long focus side continuously INC: Adjusts it to long focus side by one step. DEC: Adjusts it to short focus side by one step OFF: A continuous adjustment is stopped.	Z8000WU/Z8050W 1775W	Electric focus is adjusted.
	FOCUS?	VOID		
LENS		MIN: Adjusts it to lower side continuously. MAX: Adjusts it to up side continuously INC: Adjusts it to up side by one step. DEC: Adjusts it to lower side by one step OFF: A continuous adjustment is stopped. INIT: The lens position is moved to center.	Z8000WU/Z8050W	Vertical lens shift is adjusted.
	LENS?	VOID		

HLENS		MIN: Adjusts it to left side continuously. MAX: Adjusts it to right side continuously INC: Adjusts it to right side by one step. DEC: Adjusts it to left side by one step OFF: A continuous adjustment is stopped. INIT: The lens position is moved to center.	Z8000WU/Z8050W	Horizontal lens shift is adjusted.
	HLENS?	VOID		

## 8.2. Command table 2 (Step parameter)

Set commands	Initial value	Steps	Models	Function
VOL xx	15	0 ~ 31	600/800/810/811/820 9300/8350/9300 7800/7850/7900/7950	Set the volume level
	10	0 ~ 20	520/720/730/735, 30/52 73/53/74/54, S1/S1H, 61/81 740/745/732/737/760/765/755/750 821, S3/S4, 82, 6100 1715/1710/1705/1700 1815/1810/1825, X5/822/823 G5350/G5100/G5200W 400W/410W, S6/X6/W6 84/85/824/825/826W 1830/1900/1910/1915/ 1920W/1925W 440W/450W/460, 455Wi/465i/465T, 84H/He/L, 85H/HV,824H, 825H/HV, 826WH/WHV, 84+, 85+, 825+,826W+ G5950/G5900/G5800/G5650W/ G5600/G5500/G5750WU/G5450WU 1760W/1770W.1775W/1750/1750G 93/95/96W/900/910W/905/915W/925	
	15	0 ~ 30	830/835	
	15	0 ~ 20	1735W/1730W/1725/1720	
	5	0 ~ 10	S7/X7/W7, S8/X8/W8 S10/X10/W10, S9/X9/W9/S92/X92	
TONEH xx	0	-6 ~ 6	600/800/910/811/820 8300/8350/9300, 830/835 7800/7850/7900/7950	Set bass level
		-8 ~ 8	520/720/730/735, 30/52	
TONEL xx	0	-6 ~ 6	600/800/910/811/820 8300/8350/9300 7800/7850/7900/7950	Set bass level
BRIGHT xx	0	-64 ~ 64	520/720/730/735 30/52, 73/53/74/54	Set brightness level
		-32 ~ 32	61/81, 821	
		-30 ~ 30	600/800/910/811/820 8300/8350/9300, 830/835 7800/7850/7900/7950	
		-24 ~ 24	S4, 6100, 1715/1710/1705/1700 1815/1810/1825, X5/822/823 G5350/G5100/G5200W 400W/410W, S6/X6/W6 1735W/1730W/1725/1720 84/85/824/825/826W Z8000WU/Z8050W S7/X7/W7, S8/X8/W8 1910/1915/1920W/1925W 440W/450W/460/455Wi/465i/465T, 84H/He/L, 85H/HV,824H, 825H/HV, 826WH/WHV, 84+, 85+, 825+,826W+	

			S10/X10/W10, S9/X9/W9/S92/X92 G5950/G5900/G5800/G5650W/ G5600/G5500/G5750WU/G5450WU 1760W/1770W.1775W/1750/1750G 93/95/96W/900/910W/905/915W/925	
		-20 ~ 20	S1/S1H	
		-12 ~ 12	740/745/732/737/760/765/755/750 S3, 82	
CONTRAST xx	0	-32 ~ 32	520/720/730/735, 61/81, 821 30/52, 73/53/74/54 740/745/732/737/760/765/755/750	Set contrast level
		-30 ~ 30	600/800/910/811/820 8300/8350/9300, 830/835 7800/7850/7900/7950 S1/S1H,	
		-24 ~ 24	S4, 6100, 1715/1710/1705/1700 1815/1810/1825, X5/822/823 G5350/G5100/G5200W 400W/410W, S6/X6/W6 1735W/1730W/1725/1720 84/85/824/825/826W Z8000WU/Z8050W S7/X7/W7, S8/X8/W8 1910/1915/1920W/1925W 440W/450W/460/455Wi/465i/465T, 84H/He/L, 85H/HV,824H, 825H/HV, 826WH/WHV, 84+, 85+, 825+,826W+ S10/X10/W10, S9/X9/W9/S92/X92 G5950/G5900/G5800/G5650W/ G5600/G5500/G5750WU/G5450WU 1760W/1770W.1775W/1750/1750G 93/95/96W/900/910W/905/915W/925	
		-12 ~ 12	S3, 82	
TINT xx	0	-32 ~ 32	30/52, 73/53/74/54 S1/S1H, 61/81, S3, 82 740/745/732/737/760/765/755/750 S4, 6100, 1715/1710/1705/1700 1815/1810/1825, X5/822/823 G5350/G5100/G5200W 400W/410W, S6/X6/W6 1735W/1730W/1725/1720 84/85/824/825/826W Z8000WU/Z8050W S7/X7/W7, S8/X8/W8 1910/1915/1920W/1925W 440W/450W/460/455Wi/465i/465T 84H/He/L, 85H/HV,824H, 825H/HV, 826WH/WHV, 84+, 85+, 825+,826W+ S10/X10/W10, S9/X9/W9/S92/X92 G5950/G5900/G5800/G5650W/ G5600/G5500/G5750WU/G5450WU 1760W/1770W.1775W/1750/1750G 93/95/96W/900/910W/905/915W/925	Set tint
		-15 ~ 15	600/800/910/811/820 520/720/730/735 8300/8350/9300, 830/835	
		-5 ~ 5	7800/7850/7900/7950	

VKEYSTONE xx	0	-90 ~ 90	1815/1810/1825 1760W/1770W.1775W/1750/1750G	Set vertical keystone value
		-80 ~ 80	G5350/G5300/G5150/G5100/G5200W G5950/G5900/G5800/G5650W/ G5600/G5500	
		-64 ~ 64	8300/8350/9300, 830/835 7800/7850/7900/7950	
		-60 ~ 60	S3/S4, 82, 6100, X5/822/823 1715/1710/1705/1710 1735W/1730W/725/1720 S6/X6/W6, 84/85/824/825/826W Z8000WU/Z8050W S7/X7/W7, S8/X8/W8 1910/1915/1920W/1925W 84H/He/L, 85H/HV,824H, 825H/HV, 826WH/WHV, 84+, 85+, 825+,826W+ S10/X10/W10, S9/X9/W9/S92/X92 93/95/96W/900/910W/905/915W/925 G5750WU/G5450WU	
		-60 ~ 59	600/800/910/811/820	
		-30 ~ 30	520/720/730/735, 30/52	
		-10 ~ 10	440W/450W/460/455Wi/465i/465T	
HKEYSTONE xx	0	-64 ~ 64	830/835	Set horizontal keystone value
		-60 ~ 60	1815/1810/1825 1925W/1915 1760W/1770W.1775W/1750/1750G 93/95/96W/900/910W/905/915W/925	
		-40 ~ 40	G5350/G5100/G5200W Z8000WU/Z8050W G5950/G5900/G5800/G5650W/ G5600/G5500/G5750WU/G5450WU	
		-39 ~ 39	7800/7850/7900/7950	
		-29 ~ 29	600/800/910/811/820	

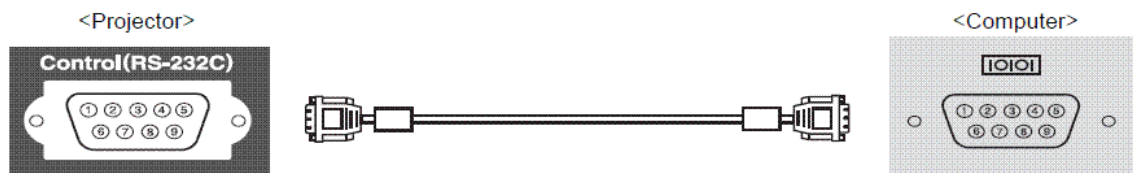
## 9. Appendix

### 9.1. Communication specification

A projector and a computer can be connected using a serial or USB port. The projector can be remotely controlled by sending commands to the projector.

Serial connection (600/800/810/811/820, 30/52, 73/53/74/54, 8300/9300, 7800/7850, S1/S1H, 61/81, 830/835/821, 828/7900/7950, 62/82, 6100/6000, 1815/1810/1825, 83/822/83+/822+, 260/280, 6110/6010, 400W/410W, G5350/G5300/G5200W/G5150/G5100/G5000, 84/85/824/825/826W, Z800WU/Z8050W, 1830/1900/1910/1915/1920W/1925W, 440W/450W/450We/450Wi/460/460e/460i, 84H/84He/84L/85H/85HV/824H/825H/825HV/826WH/826WHV, G5650W/C450WH/G5950/C520XH/G5900/C520XB/700KG/G5600/C450XB/600KG/G5800/C520XE/G5500/C450XE/G5750WU/G5450WU, 455Wi/465i/465T, 93/95/96W/900/910W/905/915W/925)

- Select RS-232C at Advanced Setting of the Menu.
- Communication condition
  - Baud rate : 9600bps
  - Data length : 8 bits
  - Parity : No
  - Stop bit : 1 bit
  - Flow control : No
- Connector : D-Sub 9pin
- Projector input : Control(RS-232C)



Projector		PC serial cable	Computer	
GND	5	—————→	5	GND
RD	2	←—————	3	TD
TD	3	—————→	2	RD

Signal name	Function
GND	Common ground
TD	Transmitted data
RD	Received data

USB connection (600/800/810/811/820, 720/730/520, 73/53/74/54, 735, 8300/9300, 7800/7850, 61/81, 830/835, 740/745/732/737/760/765, 821/828, 7900/7950, S3/S4, 755/750, 62/82/X3, 1715/1710/1705/1700, S5/X5/EX90,260, G5350/G5150, S6/X6/W6, 1735W/1730W/1725/1720, S7/X7/W7, S8/X8/W8, 1925W/1920W/1915/1910, W10/X10/S10/EB-W9/X9/S9/X92/S92/EX7200/1260/W10+/EX5200/1220/X10+/EX3200/S10+/S9/VS200, 1760W/EB-1770W/1775W/750)

- For 600/800/810/811/820, 74/54, select USB at advanced setting of the Menu.
- For 720/730/520, 73/53, 740/745, 732/737, S3/S4/X3, 760/765, 1715/1710/1705/1700, S5/X5, 260, select Link 21L at Advanced Setting of the Menu.
- For 8300/8350/9300, select USB at Advanced2 setting of the Menu.
- For 61/81, 830/835/821, select USB at Extended setting of the Menu.
- For 1735W/1730W/1725/1720, S6/X6/W6, S7/X7/W7, S8/X8/W8, S9/X9/W9, S10/X10/W10 and 1760W/EB-1770W/1775W/750 select Wireless Mouse and select Link 21L at Extended Setting of the Menu.
- EPSON USB COM Driver has to be installed in your computer to use USB for communication. A COM port is added to your computer, when the projector and your computer is connected by a USB cable. The added COM is listed at PORT (COM/LPT) in the device manager tab of System in Control Panel as EPSON COM Emulation port (COMn).

USB COM Driver	Models
EMPUSBSSetup.exe	600/800/810/811/820/720/730/520/73/53/74/54/735
EMPUSB2Setup.exe	7800/7850/8300/9300/61/81/830/835/740/745/732/737 821/828/7900/7950//S3/765/760/755/750/62/82/X3(76) S4/1715/1710/1705/1700/S5/X5/EX90/260/S6/X6/W6 1735W/1730W/1725/1720/S7/X7/W7/S8/X8/W8 W10/10/S10/EB-W9/X9/S9/X92/S92/EX7200/1260 W10+/EX5200/1220/X10+/EX3200/S10+/S9/VS200 1760W/1770W/1775W/1750/

• Connector



## 10. Revision History

Revision	Issued date	Page	Description
A	Sep 16, 2005	All pages	First release.
B	Oct 19, 2005	All pages	Correction of disclaimer. Model EMP-755/750 addition
C	Nov 4, 2005	All pages	Model EMP-62/82/X3(76) addition
D	Apr 17, 2006	All pages	Model EMP-S4 addition
E	Aug 11, 2006	All pages	Model EMP-6100/6000 and EMP-1715/1710/1705/1700 addition
F	Mar 19, 2007	All pages	Model EMP -1815/1810 and EMP-S5/X5/83/822 addition
G	Jun 4, 2007	All pages	Addition of "Applicable Model"
H	Dec 21, 2007	All pages	Model EMP-260/280 addition
I	Apr 23, 2008	All pages	Model EMP-6110/6010, EMP-400W, EMP-83+/822+/EX90 EMP-1825 and EB-G5350/5300/5200W/5150/5100/5000 addition. Addition of Error status.
J	Sep 19, 2008	All pages	Model EB-1735W/1730W/1725/1720, EB-S6/X6/W6 addition
K	Feb 25, 2009	All pages	Model EB-Z8000WU/Z8050W addition.
L	Mar 25, 2009	All pages	Addition of command of EB-Z8000WU/8050W Model EB-410W and EB-84/85/824/825/826W addition.
M	Oct 9, 2009	All pages	Addition EB-410W, EB-S7/X7/W7/S8/X8/W8, EB-1830/1900/1915/1920W/125W Addition of command for getting the serial number
N	Jan. 22, 2010	All pages	Addition EB-440W, 450W/e/i, 460/e/i, EB-84H/He/L, 85H/HV 824H, 825H/HV, 826WH/WHV, 84+, 85+, 825+, 826W+
O	-	-	Unused number
P	Jan.28, 2011	All pages	Addition -EB/PL-G5750WU/G5450WU/G5650W/G5950/G5900/G5600/G5800/G5500 -EB/PL-W10/X10/S10/EB-W9/X9/S9/X92/S92/EX7200/1260 W10+/EX5200/1220/X10+/EX3200/S10+/S9/VS200 -EB/PL-1760W/1770W/1775W/1750 -EB-455Wi/465i/465T -EB-93/95/96W/900/910W/905/915W/925