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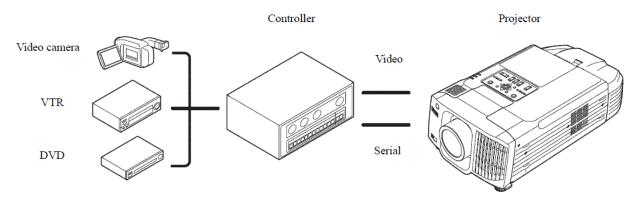
Introduction to ESC/VP21

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.

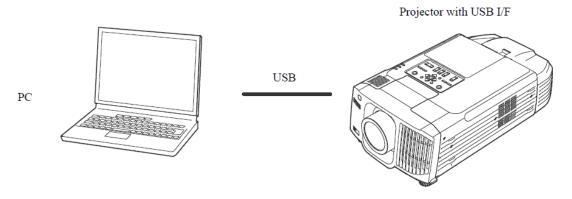
* Serial connection

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



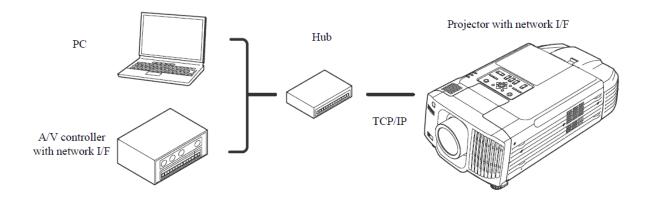
* USB connection

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



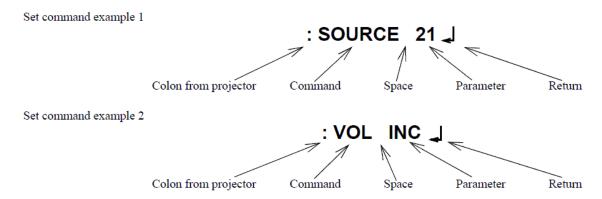
ESC/VP21 Command Formats

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.

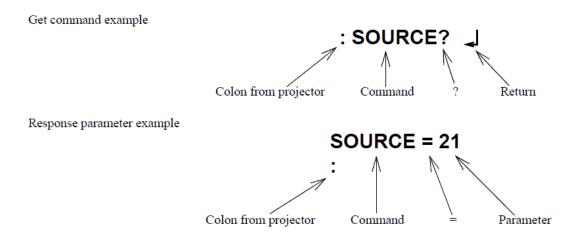
INC: increments the parameter by one. DEC: decrements the parameter by one.

INIT: initializes the parameter.



2.2. Get command format

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



2.3. Null command

The null command is as command code of the return key code (Hex 0D). Projector returns a colon_o 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

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

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	Network on/off	PWR ON
S3/S4, 765/760/755/750		PWR?
62/82/X3(76), 6100/6000		LAMP?
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		
7800/7850	Network on	PWR ON, PWR?, SOURCE?,
8300/8350/9300	INGLWOIN OIL	Null command(note1)
7900/7950	Network off	
(note3)	INGLWOLK OII	PWR ON(Note2)
Others	-	

(note1)

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.

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)	20seconds
	7900/7950/740/745	
	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	10seconds
	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	
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
	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
ERR?	09 : Electric dual-layered capacitor is disconnected
EKK!	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	0	0	0	0	0	0	0	0	0
Input source	SOURCE	0	0	0	0	0	0	0	0	0
PinP setting	PINP	0	-	-	-	0	0	-	-	0
A/V Mute Screen	MSEL	0	0	0	0	0	0	0	0	0
Auto Keystone	AUTOKEYSTONE	-	0	-	0	-	0	-	0	0
Aspect setting	ASPECT	-	-	-	0	0	0	0		0
Color mode	CMODE	0	0	0	0	0	0	0	0	0
Lamp hour	LAMP?	0	0	0	0	0	0	0	0	0
Brightness level	LUMINANCE	-	-	-	0	0	0	-	0	0
A/V Mute	MUTE	0	0	0	0	0	0	0	0	0
Freeze	FREEZE	-	0	0	0	0	0	0	0	0
Rear projection	HREVERSE	0	0	0	0	0	0	0	0	0
Ceiling	VREVERSE	0	0	0	0	0	0	0	0	0
Audio input	AUDIO	0	-	0	0	-	0	-	-	-
Key operation	KEY	0	0	0	0	0	0	0	0	0

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	\$5/X5 83/822 83+/ 822+ EX90	260 280
Power	PWR	0	0	0	0	0	0	0	0	0
Input source	SOURCE	0	0	0	0	0	0	0	0	0
PinP setting	PINP	-	-	-	-	-	-	-	-	-
A/V Mute Screen	MSEL	0	0	0	0	0	0	0	0	0
Auto Keystone	AUTOKEYSTONE	0	0		0	-	-	-	O no S5	O no 260
Aspect setting	ASPECT	0	-0	0	0	0	0	0	0	0
Color mode	CMODE	0	0	0	0	0	0	0	0	0
Lamp hour	LAMP?	0	0	0	0	0	0	0	0	0
Brightness level	LUMINANCE	0	0	0	0	0	0	0	0	0
A/V Mute	MUTE	0	0	0	0	0	0	0	0	0
Freeze	FREEZE	0	0	0	0	0	0	0	0	0
Rear projection	HREVERSE	0	0	0	0	0	0	0	0	0
Ceiling	VREVERSE	0	0	0	0	0	0	0	0	0
Audio input	AUDIO	-	-	-	-	0	-	-	-	-
Key operation	KEY	0	0	0	0	0	0	0	0	0
Closed Caption	CCAP	-	-		-	0	-	-		-
Air filter alarm timer	FLWARNING	-	-	-	-	0	-	-	-	-
Air filter timer	FLTIME	-	-	-	-	0	-	-	-	-
Air filter usage time	FILTER	-	-	-	-	0	-	-	-	-

Function	Command	G5350 G5300 G5200W G5150 G5100 G5000	\$6/\$62 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	0	0	0	0	0	0	0	0
Input source	SOURCE	0	0	0	0	0	0	0	0
PinP setting	PINP	-	-	-	-	-	-	-	-
A/V Mute Screen	MSEL	0	0	0	0	0	0	0	0
Auto Keystone	AUTOKEYSTONE	ı	O X6,W6 Only	0	0	-	ı	0	0
Aspect setting	ASPECT	0	0	0	0	0	0	0	0
Color mode	CMODE	0	0	0	0	0	0	0	0
Lamp hour	LAMP?	0	0	0	0	0	0	0	0
Brightness level	LUMINANCE	0	0	0	0	0	0	0	0
A/V Mute	MUTE	0	0	0	0	0	0	0	0
Freeze	FREEZE	0	0	0	0	0	0	0	0
Rear projection	HREVERSE	0	0	0	0	0	0	0	0
Ceiling	VREVERSE	0	0	0	0	0	0	0	0
Audio input	AUDIO	-	-	-	-	-	-	-	-
Key operation	KEY	0	0	0	0	0	0	0	0
Closed Caption	CCAP					_			_
Air filter alarm timer	FLWARNING	-	-	-	-	-	-	-	-
Air filter timer	FLTIME	-	-	-	=	-	-	-	-
Air filter usage time	FILTER	-	-	-	-	-	-	-	-
Serial Number	SNO?	-	-	-	0	0	-	-	0

		460/e/i	825H/HV,	S10	W10/X10	S9/X9/W9	1760W	G5950	93
		450W/e/i	826WH/W			S92/X92	1770W	G5900	95
		440W	HV, 85+,				1775W	G5800	96W
Function	Command	455Wi	825+,				1750	G5650W	900
1 diletion	Oommand	465i	824H				1750G	G5600	910W
		465T	84H/He/L					G5500	905
			84+					G5750WU	915W
Power	PWR	0	0	0	0	0	0	G5450WU O	925 O
Input source	SOURCE	0	0	0	0	0	0	0	0
A/V Mute Screen	MSEL	0	0	0	0	0	0	0	0
Auto Keystone	AUTOKEYSTONE	-	0	-	0	-	0	-	0
Aspect setting	ASPECT	0	0	0	0	0	0	0	0
Color mode	CMODE	0	0	0	0	0	0	0	0
Lamp hour	LAMP?	0	0	0	0	0	0	0	0
Brightness level	LUMINANCE	0	0	0	0	0	0	0	0
A/V Mute	MUTE	0	0	0	0	0	0	0	0
Freeze	FREEZE	0	0	0	0	0	0	0	0
Rear projection	HREVERSE	0	0	0	0	0	0	0	0
Ceiling	VREVERSE	-	0	0	0	0	0	0	0
Audio input	AUDIO							0	
		0	-	0	0	0	0	W/O	0
								5800/5500	
Key operation	KEY	0	0	0	0	0	0	0	0
Closed Caption	CCAP	0	0	-	-	0	0	0	0
Air filter alarm timer	FLWARNING	-	-	-	-	-	-	-	=
Air filter timer	FLTIME	-	-	-	-	-	-	-	=
Air filter usage time	FILTER	-	-	-	-	-	-	-	-
Serial Number	SNO?	0	0	-	-	-	0	0	0

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	0	0	0	0	0	0	0	0	0
Adjust the treble setting (Adjust the tone setting)	TONEH	-	-	-	-	-	-	-	-	-
Adjust the bass setting	TONEL	-	-	-	-	-	1	-	-	-
Set brightness	BRIGHT	0	0	0	0	0	0	0	0	0
Set contrast	CONTRAST	0	0	0	0	0	0	0	0	0
Set tint	TINT	0	0	0	0	0	0	0	0	0
Set vertical keystone value	VKEYSTONE	0	0	0	0	0	0	0	0	0
Set horizontal keystone value	HKEYSTONE	0	-	-	-	-	0	-	-	0

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	0	0	0	0	0	0	0	0	0
Adjust the treble setting (Adjust the tone setting)	TONEH	-	-	-	-	-	-	-	-	-
Adjust the bass setting	TONEL	-	-	-	-	-	-	-	-	-
Set brightness	BRIGHT	0	0	0	0	0	0	0	0	0
Set contrast	CONTRAST	0	0	0	0	0	0	0	0	0
Set tint	TINT	0	0	0	0	0	0	0	0	0
Set vertical keystone value	VKEYSTONE	0	0	0	0	0	0	0	0	0
Set horizontal keystone value	HKEYSTONE	-	-	-	-	-	-	0	-	-

Function	Command	G5350 G5300 G5150 G5100 G5000 G5200W	S6/S62 X6/W6	1735W 1730W 1725 1720	84/85 824 825 826W	Z8000WU/ Z8050W	\$7/\$8 X7/X8 W7/W8	1910/ 1915/ 1920W/ 1925W	460/e/i 450W/e/i 440W 455Wi 465i 465T
Adjust the volume	VOL	0	0	0	0	-	0	0	0
Adjust the treble setting (Adjust the tone setting)	TONEH	-	-	-	-	-	-	-	-
Adjust the bass setting	TONEL	-	-	-	-	-	-	-	-
Set brightness	BRIGHT	0	0	0	0	0	0	0	0
Set contrast	CONTRAST	0	0	0	0	0	0	0	0
Set tint	TINT	0	0	0	0	0	0	0	0
Set vertical keystone value	VKEYSTONE	0	0	0	0	0	0	0	0
Set horizontal keystone value	HKEYSTONE	0	-	-	-	0	-	-	-
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	0	0	0	0	0	O W/O 5800/5500	0
Adjust the treble setting (Adjust the tone setting)	TONEH	-	-	-	-	-	-	-
Adjust the bass setting	TONEL	-	-	-	-	=	-	-
Set brightness	BRIGHT	0	0	0	0	0	0	0
Set contrast	CONTRAST	0	0	0	0	0	0	0
Set tint	TINT	0	0	0	0	0	0	0
Set vertical keystone value	VKEYSTONE	0	0	0	0	0	0	0
Set horizontal keystone value	HKEYSTONE	-	-	-	-	0	0	-
Adjust the zoom	ZOOM	-	0	-	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
FVVK XX	PWR?	OFF 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,	Return the "Standby" at the time of "Network off" status check.
		01: Power on	G5950/G5900/G5800/G5650W/G5600 G5500/G5750WU/G5450WU,455Wi/465i/465T, 93/95/96W/900/910W/905/915W/925 All models	Return the power
		02: Warm up	6100/6000, 6110/6010, 1715/1710/1705/1700, 1815/1810/1825	status check Return the warm up status check
		03: Cooling down	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 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

05: Abnormal standby	6100/6000, 1715/1710/1705/1700	After the fixed time
•	1815/1810/1825, X5/822/823	passes, an abnormal
	G5350/G5300/G5150/G5100/G5000/G5200W	standby is returned
	S6/S62/X6/W6, 1735W/1730W/1725/1720	after this machine is
	84/85/824/826W	abnormally generated.
	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	

Set commands	Get commands	(Return code of get)		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/G52 00W/ 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

	T		·	T 1
			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 1735W1730W1725/1720 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 10:4:3 20: 16:9	74/54, 7800/7850 8300/9300 S1/S1H, 830/835 7900/7950 73/53, 735, 740/745, 732/737, S3/S4, 760/765, 755/750, 82,	Set aspect ratio
		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)	1715/1710/1705/1700 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	G5100/G5300/ G5350	
		10: 4:3	G5500/G5600/G5800/G5900/	
		20: 16:9	G5950	
		30: Auto		
		60: Real		
		00: Normal	1915	
		10: 4:3	X8/X10	
		20: 16:9	93/95/900/905/925	
		30: Auto	00/00/00/00/00	
		30. Auto		
CMODE xx	CMODE?	01: sRGB	30/52, 73/53, 720/730/520	Set color mode
OMODE AX	O.M.ODZ.	02: Normal	735, 600/800/810/811/820	Cot color mode
		03: Meeting	733, 000/000/010/011/020	
		04: Presentation		
		05: Theatre		
		06: Game	7000/7050	<u> </u>
		01: sRGB	7800/7850	
		04: Presentation	8300/9300	
		05: Theatre		
		08: Dynamic		
		01: sRGB	S1/S1H	
		04: Presentation	830/835	
		05: Theatre	7900/7950	
		06: Living Room		
		08: Dynamic		
		01: sRGB	54/74	
		04: Presentation	61/81	
		05: Theatre	740/745/732/737	
		08: Dynamic	821/828, 760/765	
		11: Black Board	755/750	
		01: sRGB	S3/S4	
		04: Presentation	62/82	
		05: Theatre	6100/6000	
		06: Game	S5/X5/83/822/83+/822+/EX90	
		08: Sports	260/280	
		11: Black Board	100,200	
		14: Photo		
		01: sRGB	1715/1710/1705/1700	-
		04: Presentation	1815/1810/1825	
			10 10/10 10/1020	
		05: Theatre		
		06: Game		
		08: Sports		
		10: Custom		
		11: Black Board		
		14: Photo		
		01: sRGB	400W/410W	
		03: Presentation2	G5350/G5300/G5150/	
		04: Presentation	G5100/G5200W/G5000	
		05: Theatre	6110/6010	
		06: Game		
		08: Sports		
		10: Custom		
		11: Black Board		
		14: Photo		
		***	1	

Set commands	Get commands	Parameter for set	Models	Function
		(Return code of get)		
CMODE xx	CMODE?	01: sRGB	1735W/1730W/1725/1720	Set color mode
		03: Presentation2		
		04: Presentation		
		05: Theatre		
		06: Dynamic		
		08: Sports		
		10: Custom		
		11: Black Board		
		14: Photo		_
		01: sRGB	X6/W6	
		03: Presentation2		
		04: Presentation		
		05: Theatre		
		06: Dynamic		
		08: Sports		
		11: Black Board		
		14: Photo		
		01: sRGB	84/85/824/825/826W	1
		04: Presentation		
		05: Theatre		
		06: Dynamic		
		08: Sports		
		11: Black Board		
		12: White Board		
		14: Photo		4
		01: sRGB	Z8000WU/Z8050W	
		04: Presentation		
		05: Theatre		
		06: Dynamic		
		08: Sports		
		10: Custom		
		14: Photo		
		01: sRGB	S7/X7/W7/S8/X8/W8	
		04: Presentation	440W/450W/460, 455Wi/465i/465T,	
		05: Theatre	84H/He/L, 85H/HV,824H,	
		06: Dynamic	825H/HV, 826WH/WHV, 84+, 85+,	
		08: Sports	825+,826W+	
		11: Black Board	S10/X10/W10, S9/X9/W9/S92/X92	
		12: White Board	93/95/96W/900/910W/905/	
		14: Photo	915W/925	
		01: sRGB	1830/1900/1910/1915/	1
		04: Presentation	1925W/1920W	
		05: Theatre	1760W/1770W.1775W/1750/1750G	
		06: Dynamic	170000/177000.177300/1730/1730G	
		•		
		08: Sports		
		10: Custom		
		11: Black Board		
		12: White Board		
		14: Photo		
		01: sRGB	G5950/G5900/G5800/G5650W/	
		04: Presentation	G5600/G5500/G5750WU/G5450WU	
		05: Theatre		
		06: Dynamic		
		08: Sports		
		0F: DICOM SIM		
		10: Custom		
		14: Photo		
		1-7.1 11010		

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) 00: Audio 1 (Computer/DVI) 01: Audio 2 (Video) 02: Audio 3 (DVI) 01: Audio 1 02: Audio 2	30/52 73/83/74/54 7800/7850 7900/7950 6100	
KEY xx	-	01: Audio 1(Internal speaker) 02: Audio 2(External output) 4A	1715/1705 1735W/1725 All models except 600/800/810 /811/820	Perform "Auto-sync" of a remote control button
CCAP xx	CCAP?	47 00: OFF 11: CC1 12: CC2 13: CC3 14: CC4 21: TEXT1 22: TEXT2 23: TEXT3	6100/6110	

		24: TEXT4		
		24. 12.114		
		00.055	02/022/02 - /022 -	
		00: OFF 11: CC1	83/822/83+/822+ 400W/410W	
		12: CC2	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	6100/6110	Display setting of
		01: OFF		warning time of Air filter
FLTIME x1 x2		x1: Object of setting	6100/6110	Setting of use time of
		00: All objects		air filter
		01: Object 1 02; Object 2		*The maximum value
		03: Object 3		depends on the kind
		x2: Set time 0: 1~ 100(100H)		of the air filter and the upper bound value is
		1: 101~ 200 (200H)		different.
		14: 1401 0000 (1500H)*		
	FILTER?	14: 1401 ~ 9999 (1500H)* 0 ~ 65535	6100	Acquisition of use time of air filter
ZOOM		MIN: Adjusts it to Tel side continuously.	Z8000WU/Z8050W	Electric zoom is
		MAX: Adjusts it to Wide side continuously.		adjusted.
		INC: Adjusts it to Wide side by one step.		
		DEC: Adjusts it to Tel side by one step.		
		OFF: A continuous adjustment is stopped.		
	ZOOM?	VOID		
FOCUS		MIN: Adjusts it to short focus side continuously.	Z8000WU/Z8050W 1775W	Electric focus is adjusted.
		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		
	FOCUES	stopped.		
LENS	FOCUS?	VOID MIN: Adjusts it to lower side	Z8000WU/Z8050W	Vertical lens shift is
22.10		continuously.	200000000000000000000000000000000000000	adjusted.
		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.		
	LENS?	VOID		
		ı - ·=	I	1

HLENS		MIN: Adjusts it to left side continuously.	Z8000WU/Z8050W	Horizontal lens shift is
		MAX: Adjusts it to right side continuously		adjusted.
		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.		
	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	
		0 20	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	
	L	2 22	93/95/96W/900/910W/905/915W/925	
	15	0 ~ 30	830/835	
	15	0 ~ 20	1735W/1730W/1725/1720	
	5	0 ~ 10	\$7/X7/W7, \$8/X8/W8	
			S10/X10/W10, S9/X9/W9/S92/X92	
TONEH xx	0	-6 ~ 6	600/800/910/811/820	Set bass level
			8300/8350/9300, 830/835	
			7800/7850/7900/7950	
		-8 ~ 8	520/720/730/735, 30/52	
TONEL xx	0	-6 ~ 6	600/800/910/811/820	Set bass level
			8300/8350/9300	
	_		7800/7850/7900/7950	
BRIGHT xx	0	-64 ~ 64	520/720/730/735	Set brightness level
			30/52, 73/53/74/54	
		-32 ~ 32	61/81, 821	
		-30 ~ 30	600/800/910/811/820	
			8300/8350/9300, 830/835	
		04 04	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	
			\$7/X7/W7, \$8/X8/W8	
			1910/1915/1920W/1925W	
			440W/450W/460/455Wi/465i/465T,	
			84H/He/L, 85H/HV,824H, 825H/HV,	
	II.			

		1	T =	
			\$10/X10/W10, \$9/X9/W9/\$92/X92	
			G5950/G5900/G5800/G5650W/ G5600/G5500/G5750WU/G5450WU	
			1760W/1770W.1775W/1750/1750G	
			93/95/96W/900/910W/905/915W/925	
			33/33/3000/31000/31300/323	
		-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	Set contrast level
			30/52, 73/53/74/54	
			740/745/732/737/760/765/755/750	
		-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	
			\$7/X7/W7, \$8/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	
			33/93/9000/91000/903/91300/923	
		-12 ~ 12	S3, 82	
			55, 52	
TINT xx	0	-32 ~ 32	30/52, 73/53/74/54	Set tint
			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	
			\$7/X7/W7, \$8/X8/W8	
			1910/1915/1920W/1925W	
			440W/450W/460/455Wi/465i/465T 84H/He/L, 85H/HV,824H, 825H/HV,	
			84n/ne/L, 85n/nv,824n, 825n/nv, 826WH/WHV, 84+, 85+, 825+,826W+	
			\$26W f/W fl V, 84+, 85+, 825+,826W+ \$10/X10/W10, \$9/X9/W9/\$92/X92	
			G5950/G5900/G5800/G5650W/	
			G5600/G5500/G5750WU/G5450WU	
			1760W/1770W.1775W/1750/1750G	
			93/95/96W/900/910W/905/915W/925	
	1			
		-15 ~ 15	600/800/910/811/820	
			520/720/730/735	
	1		8300/8350/9300, 830/835	
		-5 ~ 5	7800/7850/7900/7950	
			1	

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 -60 ~ 59	\$3/\$4, 82, 6100, X5/822/823 1715/1710/1705/1710 1735W/1730W/725/1720 \$6/X6/W6, 84/85/824/825/826W Z8000WU/Z8050W \$7/X7/W7, \$8/X8/W8 1910/1915/1920W/1925W 84H/He/L, 85H/HV,824H, 825H/HV, 826WH/WHV, 84+, 85+, 825+,826W+ \$10/X10/W10, \$9/X9/W9/\$92/X92 93/95/96W/900/910W/905/915W/925 G5750WU/G5450WU 600/800/910/811/820	
		-30 ~ 30 -10 ~ 10	520/720/730/735, 30/52 440W/450W/460/455Wi/465i/465T	
HKEYSTONE xx	0	-64 ~ 64 -60 ~ 60	830/835 1815/1810/1825 1925W/1915 1760W/1770W.1775W/1750/1750G 93/95/96W/900/910W/905/915W/925	Set horizontal keystone value
		-40 ~ 40 -39 ~ 39 -29 ~ 29	G5350/G5100/G5200W Z8000WU/Z8050W G5950/G5900/G5800/G5650W/ G5600/G5500/G5750WU/G5450WU 7800/7850/7900/7950 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.

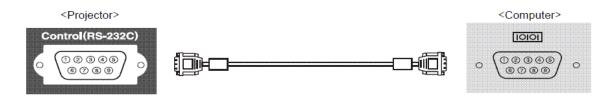
Serial connection (600/800/810/811/820, 30/52, 73/53/74/54, 8300/9300, 7800/7850, S1/S1H, 61/81, 830/835/821, 828/7900/7950, 62/82,6100/6000, 1815/1810/1825, 83/822/83+/822+, 260/280, 6110/6010, 400W/410W, G5350/G5300/G5200W/G5150/G5100/G5000, 84/85/824/825/826W, Z800WU/Z8050W, 1830/1900/1910/1915/1920W/1925W, 440W/450W/450We/450Wi/460/460e/460i, 84H/84He/84L/85H/85HV/824H/825H/825HV/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 9pinProjector input : Control(RS-232C)



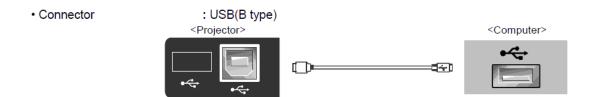
Projector		PC serial cable	Computer	
GND	5	-	5	GND
RD	2	▼	3	TD
TD	3	——	2	RD

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, Š8/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
EMPUSBSetup.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/



10. Revision History

Revision	Issued date	Page	Description
Α	Sep 16, 2005	All pages	First release.
В	Oct 19, 2005	All pages	Correction of disclaimer.
			Model EMP-755/750 addition
С	Nov 4, 2005	All pages	Model EMP-62/82/X3(76) addition
D	Apr 17, 2006	All pages	Model EMP-S4 addition
Е	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"
Н	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+
0	-	-	Unused number
P	lon 20, 2014	All pages	Addition
P	Jan.28, 2011	All pages	
			-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/PL-1760W/1770W/1775W/1750 -EB-455Wi/465i/465T
			-EB-433W1/4031/4031 -EB-93/95/96W/900/910W/905/915W/925
			-ED-93/93/90VV/9U0/91UVV/9U3/913VV/9Z3