Control Commands
制御コマンド一覧表
控制命令

Applicable Models / 対応モデル

		Global	Japan	China	
PORTABLE	WXGA	PT-LW362	PT-LW362J	PT-XW362C	PT-UW363C
		PT-LW312	PT-LW312J	PT-XW312C	PT-UW313C
	XGA	PT-LB412	PT-LB412J	PT-X412C	PT-UX413C
		PT-LB382	PT-LB330J	PT-X382C	PT-UX383C
		PT-LB332		PT-X332C	PT-UX334C
SHORT THROW	WXGA	PT-TW343R	PT-TW343RJ		
		PT-TW342		PT-XW3333STC	
	XGA	PT-TX402		PT-X3833STC	
		PT-TX312		PT-X3233STC	
				PT-X3231STC	

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CONTENTS

1. BASIC FORMAT

Transmission from the computer begins with STX, and then the command, parameter and ETX are set in order.
Add parameters according to the details of control.

Basic control command (without parameter)

Start (STX)	Command	End (ETX)
1 byte	3 bytes	1 byte

Basic control command (with parameter)

Start （STX）	Command	Separator (Colon)	Parameters Undefined	End (ETX)
1 byte	3 bytes	1 byte	length	1 byte

Response (Callback) of the basic control command

In the period when the command can be accepted

Differs according to each command

In the period when the command cannot be accepted or not available.

Hexadecimal	02h	45h	52h	34h	30h	31h	03h
Character		E	R	4	0	1	

In case of the parameter error or effective REMOTE2 terminal

Hexadecimal	02h	45h	52h	34h	30h	32h	03h
Character		E	R	4	0	2	

Attention:

- The projector cannot send or receive the commands during starting up period for 10 to 60 seconds. It should avoid sending the commands during this startup period.
- When sending several commands, be sure to wait for a response from the projector, and send the next command after 0.5 seconds or more pass.
- It might take time by the time the response returns because the command is processed in the projector. Set the time- out to 10 seconds or longer

2. BASIC CONTROL COMMAND

Explanatory notes

✔ : Enable

: Disable

2.1. Power ON (LAMP ON) [PON]

Hexadecimal	02h	50h	4Fh	4Eh	03h
Character		P	O	N	

■Response (Callback)

In the period when the command can be accepted (This command in power-on condition is included.)

Hexadecimal	02h	50h	4Fh	4Eh	03h
Character		P	O	N	

Acceptability

STANDBY (ECO)	STAMDBY	NO SIGNAL	AV MUTE	FREEZE
✔	✔	✔	✔	✔

■Note:

- When you confirm whether to have succeeded in power-on, confirm it by QPW (Query Power) command after receiving the callback of PON command.

2.2. Power OFF (STANDBY) [POF]

Hexadecimal	02h	50h	4Fh	46h	03h
Character		P	O	F	

■Response (Callback)

In the period when the command can be accepted (This command in power-on condition is included.)

Hexadecimal	02h	50h	4Fh	46h	03h
Character		P	O	F	

Acceptability

STANDBY (ECO)	STAMDBY	NO SIGNAL	AV MUTE	FREEZE
✔	✔	✔	✔	✔

■Note:

- When you confirm whether to have succeeded in power-off, confirm it by QPW (Query Power) command after receiving the callback of PON command.

2.3. INPUT SELECT [IIS]

Hexadecimal	02h	49h	49h	53h	3Ah	*1	*3	*5	03h
Character		I	I	S	:	*2	*4	*6	

■Parameters (*1,*2,*3,*4,*5,*6)

	RGB1			RGB2			VIDEO		
Hexadecimal	52h	47h	31h	52h	47h	32h	56h	49h	44d
Character	R	G	1	R	G	2	V	I	D
	S-VIDEO			HDMI			COMPONENT		
Hexadecimal	53h	56h	44h	48h	44h	31h	43h	50h	31h
Character	D	V	D	H	D	1	C	P	1
	MEMORY VIEWE			USB DISPLAY			NETWORK		
Hexadecimal	4Dh	56h	55h	44h	31h	31h	4Eh	57h	50h
Character	M	V	U	D	1	1	N	W	P

■Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	49h	49h	53h	3Ah	*1	*3	*5	03h
Character		I	I	S	:	*2	*4	*6	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
		✔	✔	✔

■Note:

- The models which do not have the Memory Viewer, USB Display or network function return ER401 for IIS:MV1, IIS:UD1 or IIS:NWP..

2.4. CLOSED CAPTION MODE [OCC]

Hexadecimal	02h	4Fh	43h	43h	3Ah	*1	03h
Character		O	C	C	:	*2	

■Parameters (*1,*2)

	OFF.	CC1	CC2	CC3	CC4
Hexadecimal	30h	31h	32h	33h	34h
Character	0	1	2	3	4

■Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	4Fh	43h	43h	3Ah	*1	03h
Character		O	C	C	:	*2	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE

■Note:

- It returns ER401 if the Closed Caption cannot be selected.

2.5. FREEZE [OFZ]

Hexadecimal	02h	4Fh	46h	5Ah	03h
Character		O	F	Z	

■Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	4Fh	46h	5Ah	03h
Character		O	F	Z	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
		✔	✔	✔

■Note:

- The prohibition mark will appear if the Memory Viewer, USB Display or Network is selected.

2.6. MENU [OMN]

Hexadecimal	02h	4Fh	4Dh	4Eh	03h
Character		O	M	N	

■Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	4Fh	4Dh	4Eh	03h
Character		O	M	N	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
		✔	✔	✔

■Note:

- The menu display changes in toggle when the PJ receives multiple comands.

2.7. ENTER [OEN]

Hexadecimal	02h	4Fh	45h	4Eh	03h
Character		O	E	N	

■Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	4Fh	45h	4Eh	03h
Character		O	E	N	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
		✔	✔	✔

2.8. UP [OCU]

Hexadecimal	02h	4Fh	43h	55h	03h
Character		O	C	U	

■Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	4Fh	43h	55h	03h
Character		O	C	U	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
		✔	✔	✔

■Note:
- The function executes without prohibition mark display during the Memory viewer playback.

2.9. DOWN [OCD]

Hexadecimal	02h	4Fh	43h	44h	03h
Character		O	C	D	

■Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	4Fh	43h	44h	03h
Character		O	C	D	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
		✔	✔	✔

■Note:
- The function executes without prohibition mark display during the Memory viewer playback.

2.10. LEFT [OCL]

Hexadecimal	02h	4Fh	43h	4Ch	03h
Character		O	C	L	

■Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	4Fh	43h	4Ch	03h
Character		O	C	L	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
		✔	✔	✔

■Note:
- The function executes without prohibition mark display during the Memory viewer playback.

2.11. RIGHT [OCR]

Hexadecimal	02h	4Fh	43h	52h	03h
Character		O	C	R	

■Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	4Fh	43h	52h	03h
Character		O	C	R	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
		✔	✔	✔

■Note:
- The function executes without prohibition mark display during the Memory viewer playback

2.12. AUTO SETUP [OAS]

Hexadecimal	02h	4Fh	41h	53h	03h
Character		O	A	S	

■Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	4Fh	41h	53h	03h
Character		O	A	S	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
		✔	✔	✔

■Note:
- The prohibition mark will appear if the Memory Viewer, USB Display or Network is selected.

2.13. AV MUTE [OSH]

Hexadecimal	02h	4Fh	53h	48h	03h
Character		O	S	H	

■Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	4Fh	53h	48h	03h
Character		O	S	H	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
		✔	✔	✔

2.14. MUTE [AMT]

Hexadecimal	02h	41h	4Dh	54h	3Ah	*1	03h
Character		A	M	T	:	*2	

■Parameters (*1,*2)

	OFF.	ON
Hexadecimal	30h	31h
Character	0	1

■Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	41h	40h	54h	3Ah	*1	03h
Character		A	M	T	:	*2	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
		✔	✔	✔

2.15. VOULUME UP [AUU]

Hexadecimal	02h	41h	55h	55h	03h
Character		A	U	U	

■Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	41h	55h	55h	03h
Character		A	U	U	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
		✔	✔	✔

■Note:

- If the sound mute is on, it executes with sound mute off.

2.16. VOULUME DOWN [AUD]

Hexadecimal	02h	41h	55h	44h	03h
Character		A	U	D	

■Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	41h	55h	44h	03h
Character		A	U	D	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
		✔	✔	✔

■Note:

- If the sound mute is on, it executes with sound mute off.

2.17. ASPECT Toggle [VS1]

Hexadecimal	02h	56h	53h	31h	03h
Character		V	S	1	

■Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	56h	53h	31h	03h
Character		V	S	1	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
		✔	✔	✔

■Note:

- The prohibition mark will appear if the Memory Viewer, USB Display or Network is selected.

2.18. Query POWER [QPW]

Hexadecimal	02h	51h	50h	57h	03h
Character		Q	P	W	:

■Response (Callback)

OFF

Hexadecimal	02h	30h	30h	30h	03h

Character		0	0	0	

ON

Hexadecimal	02h	30h	30h	31h	03h
Character		0	0	1	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
✔	✔	✔	✔	✔

2.19. Query INPUT SELECT [QIN]

Hexadecimal	02h	51h	49h	4Eh	03h
Character		Q	I	N	

■Response (Callback)

RGB1

Hexadecimal	02h	52h	47h	31h	03h
Character		R	G	1	

RGB2

Hexadecimal	02h	52h	47h	32h	03h
Character		R	G	2	

VIDEO

Hexadecimal	02h	56h	49h	44h	03h
Character		V	I	D	

COMPONENT

Hexadecimal	02h	43h	50h	31h	03h
Character		C	P	1	

HDMI

Hexadecimal	02h	48h	44h	31h	03h
Character		H	D	1	

S-VIDEO

Hexadecimal	02h	53h	56h	44h	03h
Character		S	V	D	

MEMORY VIEWER

Hexadecimal	02h	4Dh	56h	31h	03h
Character		M	V	1	

USB DISPLAY

Hexadecimal	02h	55h	44h	31h	03h
Character		U	D	1	

NETWORK

Hexadecimal	02h	4Eh	57h	50h	03h
Character		N	W	P	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
	✔	✔	✔	✔

2.20. Query CLOSED CAPTION Mode [QCC]

Hexadecimal	02h	51h	43h	43h	03h
Character		Q	C	C	

■Response (Callback)

OFF

Hexadecimal	02h	30h	03h
Character		0	

CC1

Hexadecimal	02h	31h	03h
Character		1	

CC2

Hexadecimal	02h	32h	03h
Character		2	

CC3

Hexadecimal	02h	33h	03h
Character		3	

CC4

Hexadecimal	02h	34h	03h
Character		4	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
	✔	✔	✔	✔

■Note:

- It returns ER401 if the Closed Caption cannot be selected.

2.21. Query FREEZE [QFZ]

Hexadecimal	02h	51h	46h	5Ah	03h
Character		Q	F	Z	

■Response (Callback)

OFF

Hexadecimal	02h	30h	03h
Character		0	

ON

Hexadecimal	02h	31h	03h
Character		1	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
	✔	✔	✔	✔

2.22. Query AUTO SETUP [QAS]

Hexadecimal	02h	51h	41h	53h	03h
Character		Q	A	S	

■Response (Callback)

OFF

Hexadecimal	02h	30h	03h
Character		0	

ON

Hexadecimal	02h	31h	03h
Character		1	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
	✔	✔	✔	✔

■Note:

- It returns “1” during Auto PC adjustment executing, otherwise it returns “0”.

2.23. Query ASPECT Toggle [QS1]

Hexadecimal	02h	51h	53h	31h	03h
Character		Q	S	1	

■Response (Callback)

Normal

Hexadecimal	02h	31h	03h
Character		1	

Wide

Hexadecimal	02h	32h	03h
Character		2	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
	✔	✔	✔	✔

2.24. Query AV MUTE [QSH]

Hexadecimal	02h	51h	53h	48h	03h
Character		Q	S	H	

■Response (Callback)

OFF

Hexadecimal	02h	30h	03h
Character		0	

ON

Hexadecimal	02h	31h	03h
Character		1	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
	✔	✔	✔	✔

2.25. Query MUTE [QMT]

Hexadecimal	02h	51h	4Dh	54h	03h
Character		Q	M	T	

■Response (Callback)

OFF

Hexadecimal	02h	30h	03h

Character		0	

ON

Hexadecimal	02h	31h	03h
Character		1	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
✔	✔	✔	✔	✔

2.26. Query LAMP RUNTIME [Q$L]

Hexadecimal	02h	51h	24h	4Ch	03h
Character		Q	$	L	

■Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	*1	*3	*5	*7	03h
Character		*2	*4	*6	*8	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
	✔	✔	✔	✔

■Parameters (*1,*2,*3,*4,*5,*6,*7,*8)

Response

	0 h				1 h			
Hexadecimal	30h	30h	30h	30h	30h	30h	30h	31h
Character	0	0	0	0	0	0	0	1
	9998 h				9999 h			
Hexadecimal	39h	39h	39h	38h	39h	39h	39h	39h
Character	9	9	9	8	9	9	9	9

2.27. Query LAMP STATUS [Q$S]

Hexadecimal	02h	51h	24h	53h	03h
Character		Q	$	S	

■Response (Callback)

Lamp OFF

Hexadecimal	02h	30h	03h
Character		0	

In turning ON

Hexadecimal	02h	31h	03h
Character		1	

Lamp ON

Hexadecimal	02h	32h	03h
Character		2	

In turning OFF

Hexadecimal	02h	33h	03h
Character		3	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
	✔	✔	✔	✔

2.28. Query TEMP INFORMATION [QTM]

Hexadecimal	02h	51h	54h	4Dh	3Ah	*1	03h
Character		Q	T	M	:	*2	

■Parameters (*1,*2)

	Temp.
Hexadecimal	30h
Character	0

■Response (Callback)

Example: -20deg;C (-4deg;F)

		Centigrade					Fahrenheit				
Hexadecimal	02h	2Dh	30h	32h	30h	2Fh	2Dh	30h	30h	34h	03h
Character		-	0	2	0	/	-	0	0	4	

Example: 120 deg;C (248 deg;F)

		Centigrade					Fahrenheit				
Hexadecimal	02h	30h	31h	32h	30h	2Fh	30h	32h	34h	38h	03h
Character		0	1	2	0	/	0	2	4	8	

Acceptability

STANDBY	STANDBY	NO SIGNAL	AV MUTE	FREEZE

(ECO)				
	✔	✔	✔	✔

2.29. Query SERIAL NUMBER [QSN]

Hexadecimal	02h	51h	53h	4Eh	03h
Character		Q	S	N	

■Response (Callback)

Hexadecimal	02h	*1	*3	~	*21	*23	03h
Character		*2	*4		*22	*24	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
	✔	✔	✔	✔

■Parameters (*1~*24)

Example: SW012345

Hexadecimal	02h	53h	57h	30h	31h	30h	31h	32h	33h	34h	03h
Character		S	W	0	1	0	1	2	3	4	

2.30. Query RUNTIME – PROJECTOR [QVX:RTMI0]

Hexadecimal	02h	51h	56h	58h	3Ah	52h	54h	4Dh	49h	30h	03h
Character		Q	V	X	:	R	T	M	I	0	

■Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	*1	*3	*5	*7	*9	03h	03h
Character		*2	*4	*6	*8	*10		

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
	✔	✔	✔	✔