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-LW330	PT-LW330J	PT-XW331C	PT-UW332C
		PT-LW280	PT-LW280J	PT-XW281C	PT-UW282C
	XGA	PT-LB360	PT-LB360J	PT-X361C	PT-UX363C
		PT-LB330	PT-LB330J	PT-X331C PT-X330C	PT-UX333C
		PT-LB300		PT-X303C	
		PT-LB280		PT-X281C	PT-UX283C
SHORT THROW	WXGA	PT-TW341R	PT-TW341RJ		
		PT-TW340		PT-XW3232STC	
		PT-TW250		PT-XW2731STC	
	XGA	PT-TX400		PT-X3530STC	
		PT-TX310		PT-X3230STC	
		PT-TX210		PT-X2730STC	

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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					
Hexadecimal	4Dh	56h	31h	55h	44h	31h			
Character	M	V	1	U	D	1			

■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 or USB Display function return ER401 for IIS:MV1 or IIS:UD1.
- The models which do not have a COMPUTER2 terminal or set the MONITOR OUT for COMUTER2 Terminal return ER401 for IIS:RG2.

2.4. 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
		✔	✔	✔

2.5. MUTE [AMT]

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

■Parameters (*1,*2)

	オフ.	オン
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
		✔	✔	✔

2.6. 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
		✔	✔	✔

2.7. 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
		✔	✔	✔

2.8. 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
✔	✔	✔	✔	✔

2.9. 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	

Acceptability

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

2.10. 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
	✔	✔	✔	✔

2.11. 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
✔	✔	✔	✔	✔

2.12. 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

2.13. 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
	✔	✔	✔	✔

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

2.15. 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	

2.16. 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
	✔	✔	✔	✔