

Control Commands

Model No. PT-CW330/CX300/CW240 Series
PT-CW331R/CX301R/CW241R Series
PT-LX270/LX300 series
PT-LX351/LX321/LX271/LW321/LW271 series
PT-TW330/TX300/TW240 Series
PT-TW331R/TX301R/TW241R Series

CONTENTS

1. BASIC FORMAT	2
2. BASIC CONTROL COMMAND	3
2.1. Power ON (LAMP ON)	3
2.2. Power OFF (STANDBY).....	3
2.3. INPUT SELECT.....	3
2.4. AV MUTE Key	3
2.5. MUTE	4
2.6. Query POWER	4
2.7. Query INPUT SELECT.....	4
2.8. Query AV MUTE	4
2.9. Query MUTE	5
2.10. Query LAMP RUNTIME	5
2.11. Query LAMP STATUS	5
2.12. Query TEMP INFORMATION.....	5
2.13. Query SERIAL NUMBER	6
2.14. Query RUNTIME - PROJECTOR.....	6

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)

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)

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

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		
Hexadecimal	52h	47h	31h	52h	47h	32h
Character	R	G	1	R	G	2
	VIDEO			S-VIDEO		
Hexadecimal	56h	49h	44h	53h	56h	44h
Character	V	I	D	S	V	D
	HDMI					
Hexadecimal	48h	44h	31h			
Character	H	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
×	×	○	○	○

2.4. AV MUTE Key

Hexadecimal	02h	4Fh	53h	48h	3Ah	*1	03h
Character		O	S	H	:	*2	

■Parameters (*1,*2)

	AV MUTE OFF	AV MUTE ON
Hexadecimal	30h	31h
Character	0	1

■Response (Callback)

In the period when the command can be accepted

Hexadecimal Character	02h	4Fh	53h	48h	3Ah	*1 *2	03h
-----------------------	-----	-----	-----	-----	-----	----------	-----

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
x	x	x	o	o

2.5. MUTE

Hexadecimal Character	02h	41h	4Dh	54h	03h
		A	M	T	

■Response (Callback)

In the period when the command can be accepted

Hexadecimal Character	02h	41h	40h	54h	03h
		A	M	T	

Acceptability

STANDBY (ECO)	STANDBY	NO SIGNAL	AV MUTE	FREEZE
x	x	o	o	o

2.6. Query POWER

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

■Response (Callback)

OFF

Hexadecimal Character	02h	30h	30h	30h	03h
		0	0	0	

ON

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

Acceptability

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

2.7. Query INPUT SELECT

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

■Response (Callback)

RGB1

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

RGB2

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

VIDEO

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

HDMI

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

S-VIDEO

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

Acceptability

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

2.8. Query AV MUTE

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

■Response (Callback)

OFF

Hexadecimal Character	02h	30h	03h
		0	

ON

Hexadecimal Character	02h	31h	03h
		1	

Acceptability

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

2.9. Query MUTE

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
○	○	○	○	○

2.10. Query LAMP RUNTIME

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

2.11. Query LAMP STATUS

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
○	○	○	○	○

2.12. Query TEMP INFORMATION

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)

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)

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
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2.13. Query SERIAL NUMBER

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
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

■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	

2.14. Query RUNTIME - PROJECTOR

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
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>