

Panasonic Projector RS-232C Control Specifications
PT-FW100NT/F100NT/F100

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Using the Serial Terminals

1. Basic Format

Transmission from the computer begins with STX, then the command, parameter and ETX are sent in this 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 parameters)

Start (STX)	Command	Separator (colon)	Parameters	End (ETX)
1 byte	3 bytes	1 byte	Undefined 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 commands cannot be accepted or the command does not exist

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

In case of the parameter error

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

Notes:

- 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

Yes: Enable

No: 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

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	Yes	Yes	Yes	(Yes)

■ 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.
- When REMOTE is effective, ER401 is returned as a response (callback).

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-off condition is included)

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	Yes	Yes	Yes	(Yes)

■ Notes:

- When you confirm whether to have succeeded in power-off, confirm it by QPW (Query Power) command after receiving the callback of POF command.
- When REMOTE is effective, ER401 is returned as a response (callback).

2.3. AUTO SETUP

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

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
No	No	No	No	Yes

■ Note:

- This command is acceptable only when RGB1 or RGB2 is selected and RGB PC signals are input. In other cases, ER401 is returned.

2.4. SHUTTER key

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

■ Parameters (*1, *2)

	Shutter OFF	Shutter ON
Hexadecimal	30h	31h
Character	0	1

■ Response (Callback)

In the period when the command can be accepted

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
No	No	Yes	Yes	Yes

2.5. FREEZE key

Hexadecimal	02h	4Fh	46h	5Ah	3Ah	*1	03h
Character		O	F	Z	:	*2	

■ Parameters (*1, *2)

	Freeze OFF	Freeze ON
Hexadecimal	30h	31h
Character	0	1

■ Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	4Fh	46h	5Ah	3Ah	*1	03h
Character		O	F	Z	:	*2	

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
No	No	No	No	Yes

2.6. Input Change

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

■ Parameters (*1, *2, *3, *4, *5, *6)

	COMPUTER 1			COMPUTER 2		
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
	COMPONENT			NETWORK		
Hexadecimal	59h	55h	56h	4Eh	57h	50h
Character	Y	U	V	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

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
No	No	Yes	Yes	(Yes)

■ Notes:

- REMOTE is given to priority. Calls back ER402 if the input change by REMOTE is effective.
- Parameter NWP is available for FW100NT and F100NT only.
- STANDBY is valid when AUDIO IN STANDBY in EXT OPTION is "ON".

2.7. MENU key

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

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	Yes	No	Yes

2.8. ENTER key

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

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	Yes	No	Yes

2.9. Up (↑) key

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

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	Yes	No	Yes

2.10. Down (↓) key

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

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	Yes	No	Yes

2.11. Left (←) key

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

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	Yes	No	Yes

2.12. Right (→) key

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

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	Yes	No	Yes

2.13. DEFAULT key

Hexadecimal	02h	4Fh	53h	54h	03h
Character		O	S	T	

■ Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	4Fh	53h	54h	03h
Character		O	S	T	

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
No	No	Yes	No	Yes

2.14. Volume + key

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

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
No	No	No	No	Yes

■ Notes:

- STANDBY is valid when AUDIO IN STANDBY in EXT OPTION is "ON".

2.15. Volume - key

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

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
No	No	No	No	Yes

■ Notes:

- STANDBY is valid when AUDIO IN STANDBY in EXT OPTION is "ON".

2.16. INDEX WINDOW key

Hexadecimal	02h	4Fh	49h	58h	03h
Character		O	I	X	

■ Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	4Fh	49h	58h	03h
Character		O	I	X	

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
No	No	No	No	Yes

■ Notes:

- It is invalid during SIDE BY SIDE with the PT-FW100NT.

2.17. DIGITAL ZOOM + key

Hexadecimal	02h	44h	5Ah	55h	03h
Character		D	Z	U	

■ Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	44h	5Ah	55h	03h
Character		D	Z	U	

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
No	No	No	No	Yes

■ Notes:

- It is invalid during SIDE BY SIDE with the PT-FW100NT.

2.18. DIGITAL ZOOM - key

Hexadecimal	02h	44h	5Ah	44h	03h
Character		D	Z	D	

■ Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	44h	5Ah	44h	03h
Character		D	Z	D	

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
No	No	No	No	Yes

■ Notes:

- It is invalid during SIDE BY SIDE with the PT-FW100NT.

2.19. Picture Mode

Hexadecimal	02h	56h	50h	4Dh	3Ah	*1	*3	*5	03h
Character		V	P	M	:	*2	*4	*6	

■ Parameters (*1, *2, *3, *4, *5, *6)

	DYNAMIC			NATURAL			STANDARD			BLACKBOARD		
Hexadecimal	44h	59h	4Eh	4Eh	41h	54h	53h	54h	44h	42h	42h	44h
Character	D	Y	N	N	A	T	S	T	D	B	B	D

■ Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	56h	50h	4Dh	3Ah	*1	*3	*5	03h
Character		V	P	M	:	*2	*4	*6	

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
No	No	No	No	Yes

2.20. Audio Volume Level

Hexadecimal	02h	41h	56h	4Ch	3Ah	*1	*3	*5	03h
Character		A	V	L	:	*2	*4	*6	

■ Parameters (*1, *2, *3, *4, *5, *6)

	0			1			2		
Hexadecimal	30h	30h	30h	30h	30h	31h	30h	30h	32h
Character	0	0	0	0	0	1	0	0	2
	61			62			63		
Hexadecimal	30h	36h	31h	30h	36h	32h	30h	36h	33h
Character	0	6	1	0	6	2	0	6	3

■ Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	41h	56h	4Ch	3Ah	*1	*3	*5	03h
Character		A	V	L	:	*2	*4	*6	

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
No	No	No	No	Yes

■ Notes:

- STANDBY is valid when AUDIO IN STANDBY in EXT OPTION is "ON".

2.21. Set Date

Hexadecimal	02h	54h	53h	44h	3Ah	*y1	*y2	*y3
Character		T	S	D	:			
Hexadecimal	*y4	*m1	*m2	*d1	*D2	*w	03h	
Character								

■ Parameters

*y1 - *y4: Year (4 digits)

*m1, *m2: Month (2 digits)

*d1, *d2: Day (2 digits)

*w: Day of the week (Mon = 1, Tue = 2, Wed = 3, Thu = 4, Fri = 5, Sat = 6, Sun = 7)

Set it by UTC (Coordinated Universal Time).

Example: Thursday, June 29, 2006

	*y1	*y2	*y3	*y4	*m1	*m2	*d1	*D2	*w
Hexadecimal	32h	30h	30h	36h	30h	36h	32h	39h	34h
Character	2	0	0	6	0	6	2	9	4

■ Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	54h	53h	44h	3Ah	*y1	*y2	*y3
Character		T	S	D	:			
Hexadecimal	*y4	*m1	*m2	*d1	*d2	*w	03h	
Character								

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
No	Yes	Yes	Yes	Yes

2.22. Set Time

Hexadecimal	02h	54h	53h	54h	3Ah	*h1
Character		T	S	T	:	
Hexadecimal	*h2	*m1	*m2	*s1	*s2	03h
Character						

■ Parameters

*h1, *h2: Hour (2 digits)

*m1, *m2: Minute (2 digits)

*s1, *s2: Second (2 digits)

Set it by UTC (Coordinated Universal Time).

Example: 3 seconds at 3:45 p.m.

	*h1	*h2	*m1	*m2	*s1	*s2
Hexadecimal	31h	35h	34h	35h	30h	33h
Character	1	5	4	5	0	3

■ Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	54h	53h	54h	3Ah	*h1
Character		T	S	T	:	
Hexadecimal	*h2	*m1	*m2	*s1	*s2	03h
Character						

■ Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
No	Yes	Yes	Yes	Yes

2.23. Query Power

Hexadecimal	02h	51h	50h	57h	03h
-------------	-----	-----	-----	-----	-----

Character		Q	P	W	
-----------	--	---	---	---	--

■ Response (Callback)

OFF

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

ON

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	Yes	Yes	Yes	Yes

2.24. 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

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	Yes	Yes	Yes	Yes

2.25. Query Input Change

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

■ Response (Callback)

COMPUTER 1

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

COMPUTER 2

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

VIDEO

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

S-VIDEO

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

COMPONENT

Hexadecimal	02h	59h	55h	56h	03h
Character		Y	U	V	

NETWORK

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	Yes	Yes	Yes

2.26. Query Audio Volume Level

Hexadecimal	02h	51h	41h	56h	03h
Character		Q	A	V	

In the period when the command can be accepted

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	Yes	Yes	Yes

■ Parameters (*1, *2, *3, *4, *5, *6)

	0			1			2		
Hexadecimal	30h	30h	30h	30h	30h	31h	30h	30h	32h
Character	0	0	0	0	0	1	0	0	2
	61			62			63		
Hexadecimal	30h	36h	31h	30h	36h	32h	30h	36h	33h
Character	0	6	1	0	6	2	0	6	3

2.27. Query Color

Hexadecimal	02h	51h	56h	43h	03h
Character		Q	V	C	

■ Response (Callback)

In the period when the command can be accepted

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	No	Yes	Yes

■ Parameters (*1, *2, *3, *4, *5, *6)

	-32			-31			-30		
Hexadecimal	2Dh	33h	32h	2Dh	33h	31h	2Dh	33h	30h
Character	-	3	2	-	3	1	-	3	0
	30			31			32		
Hexadecimal	30h	33h	30h	30h	33h	31h	30h	33h	32h
Character	0	3	0	0	3	1	0	3	2

2.28. Query Tint

Hexadecimal	02h	51h	56h	54h	03h
Character		Q	V	T	

■ Response (Callback)

In the period when the command can be accepted

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	No	Yes	Yes

■ Parameters (*1, *2, *3, *4, *5, *6)

	-32			-31			-30		
Hexadecimal	2Dh	33h	32h	2Dh	33h	31h	2Dh	33h	30h
Character	-	3	2	-	3	1	-	3	0
	30			31			32		
Hexadecimal	30h	33h	30h	30h	33h	31h	30h	33h	32h
Character	0	3	0	0	3	1	0	3	2

2.29. Query Brightness

Hexadecimal	02h	51h	56h	42h	03h
Character		Q	V	B	

■ Response (Callback)

In the period when the command can be accepted

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	No	Yes	Yes

■ Parameters (*1, *2, *3, *4, *5, *6)

	-32			-31			-30		
Hexadecimal	2Dh	33h	32h	2Dh	33h	31h	2Dh	33h	30h
Character	-	3	2	-	3	1	-	3	0
	30			31			32		
Hexadecimal	30h	33h	30h	30h	33h	31h	30h	33h	32h
Character	0	3	0	0	3	1	0	3	2

2.30. Query Contrast

Hexadecimal	02h	51h	56h	52h	03h
Character		Q	V	R	

■ Response (Callback)

In the period when the command can be accepted

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	No	Yes	Yes

■ Parameters (*1, *2, *3, *4, *5, *6)

	-32			-31			-30		
Hexadecimal	2Dh	33h	32h	2Dh	33h	31h	2Dh	33h	30h
Character	-	3	2	-	3	1	-	3	0
	30			31			32		
Hexadecimal	30h	33h	30h	30h	33h	31h	30h	33h	32h
Character	0	3	0	0	3	1	0	3	2

2.31. Query Sharpness

Hexadecimal	02h	51h	56h	53h	03h
Character		Q	V	S	

■ Response (Callback)

In the period when the command can be accepted

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	No	Yes	Yes

■ Parameters (*1, *2, *3, *4, *5, *6)

	-08			-07			-06		
Hexadecimal	2Dh	30h	38h	2Dh	30h	37h	2Dh	30h	36h
Character	-	0	8	-	0	7	-	0	6
	13			14			015		
Hexadecimal	30h	31h	33h	30h	31h	34h	30h	31h	35h
Character	0	1	3	0	1	4	0	1	5

2.32. Query White Balance - R

Hexadecimal	02h	51h	57h	52h	03h
Character		Q	W	R	

■ Response (Callback)

In the period when the command can be accepted

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	No	Yes	Yes

■ Parameters (*1, *2, *3, *4, *5, *6)

	-32			-31			-30		
Hexadecimal	2Dh	33h	32h	2Dh	33h	31h	2Dh	33h	30h
Character	-	3	2	-	3	1	-	3	0
	30			31			32		
Hexadecimal	30h	33h	30h	30h	33h	31h	30h	33h	32h
Character	0	3	0	0	3	1	0	3	2

2.33. Query White Balance - G

Hexadecimal	02h	51h	57h	47h	03h
Character		Q	W	G	

■ Response (Callback)

In the period when the command can be accepted

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	No	Yes	Yes

■ Parameters (*1, *2, *3, *4, *5, *6)

	-32			-31			-30		
Hexadecimal	2Dh	33h	32h	2Dh	33h	31h	2Dh	33h	30h
Character	-	3	2	-	3	1	-	3	0
	30			31			32		
Hexadecimal	30h	33h	30h	30h	33h	31h	30h	33h	32h
Character	0	3	0	0	3	1	0	3	2

2.34. Query White Balance - B

Hexadecimal	02h	51h	57h	42h	03h
Character		Q	W	B	

■ Response (Callback)

In the period when the command can be accepted

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	No	Yes	Yes

■ Parameters (*1, *2, *3, *4, *5, *6)

	-32			-31			-30		
Hexadecimal	2Dh	33h	32h	2Dh	33h	31h	2Dh	33h	30h
Character	-	3	2	-	3	1	-	3	0
	30			31			32		
Hexadecimal	30h	33h	30h	30h	33h	31h	30h	33h	32h
Character	0	3	0	0	3	1	0	3	2

2.35. Query Horizontal Position

Hexadecimal	02h	51h	48h	50h	03h
Character		Q	H	P	

■ Response (Callback)

In the period when the command can be accepted

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	No	Yes	Yes

■ Parameters (*1, *2, *3, *4, *5, *6)

	-127				-126				-125			
Hexadecimal	2Dh	31h	32h	37h	2Dh	31h	32h	36h	2Dh	31h	32h	35h
Character	-	1	2	7	-	1	2	6	-	1	2	5
	125				126				127			
Hexadecimal	31h	32h	35h	31h	32h	36h	31h	32h	37h			
Character	1	2	5	1	2	6	1	2	7			

2.36. Query Vertical Position

Hexadecimal	02h	51h	56h	50h	03h
Character		Q	V	P	

■ Response (Callback)

In the period when the command can be accepted

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	No	Yes	Yes

■ Parameters (*1, *2, *3, *4, *5, *6)

	-64			-63			-62		
Hexadecimal	2Dh	36h	34h	2Dh	36h	33h	2Dh	36h	32h
Character	-	6	4	-	6	3	-	6	2
	62		63		64				
Hexadecimal	36h	32h	36h	33h	36h	34h			
Character	6	2	6	3	6	4			

2.37. Query Clock Phase

Hexadecimal	02h	51h	43h	50h	03h
Character		Q	C	P	

■ Response (Callback)

In the period when the command can be accepted

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	No	Yes	Yes

■ Parameters (*1, *2, *3, *4, *5, *6)

	-16			-15			-14		
Hexadecimal	2Dh	31h	36h	2Dh	31h	36h	2Dh	31h	36h
Character	-	1	6	-	1	6	-	1	4
	14			15			16		
Hexadecimal	30h	31h	34h	30h	31h	35h	30h	31h	36h
Character	0	1	4	0	1	5	0	1	6

■ Note:

- This command is acceptable only when the input is COMPUTER 1, COMPUTER 2 or COMPONENT. In other cases, ER401 is returned.

2.38. Query Dot Clock

Hexadecimal	02h	51h	44h	43h	03h
Character		Q	D	C	

■ Response (Callback)

In the period when the command can be accepted

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	No	Yes	Yes

■ Parameters (*1, *2, *3, *4, *5, *6)

	-32			-31			-30		
Hexadecimal	2Dh	33h	32h	2Dh	33h	31h	2Dh	33h	30h
Character	-	3	2	-	3	1	-	3	0
	30			31			32		
Hexadecimal	30h	33h	30h	30h	33h	31h	30h	33h	32h
Character	0	3	0	0	3	1	0	3	2

■ Note:

- This command is acceptable only when the input is COMPUTER 1 or COMPUTER. In other cases, ER401 is returned.

2.39. Query Picture Mode

Hexadecimal	02h	51h	50h	4Dh	03h
Character		Q	P	M	

■ Response (Callback)

In the period when the command can be accepted

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	Yes	Yes	Yes

■ Parameters (*1, *2, *3, *4, *5, *6)

	DYNAMIC			NATURAL			STANDARD			BLACKBOARD		
Hexadecimal	44h	59h	4Eh	4Eh	41h	54h	53h	54h	44h	42h	42h	44h
Character	D	Y	N	N	A	T	S	T	D	B	B	D

2.40. Query Color Temperature

Hexadecimal	02h	51h	54h	45h	03h
Character		Q	T	E	

■ Response (Callback)

In the period when the command can be accepted

Hexadecimal	02h	*1	*3	03h
Character		*2	*4	

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	No	Yes	Yes

■ Parameters (*1, *2, *3, *4)

	LOW	STANDARD	HIGH
Hexadecimal	30h	31h	32h
Character	0	1	2

2.41. Query Keystone

Hexadecimal	02h	51h	4Bh	53h	03h
Character		Q	K	S	

■ Response (Callback)

In the period when the command can be accepted

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	Yes	Yes	Yes

■ Parameters (*1, *2, *3, *4, *5, *6, *7, *8)

	-32			-31			-30		
Hexadecimal	2Dh	33h	32h	2Dh	33h	31h	2Dh	33h	30h
Character	-	3	2	-	3	1	-	3	0
	30			31			32		
Hexadecimal	30h	33h	30h	30h	33h	31h	30h	33h	32h
Character	0	3	0	0	3	1	0	3	2

2.42. Query SHUTTER

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

■ Response (Callback)

OFF

Hexadecimal	02h	31h	03h
Character		0	

ON

Hexadecimal	02h	31h	03h
Character		1	

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	Yes	Yes	Yes

2.43. Query FREEZE

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

■ Response (Callback)

OFF

Hexadecimal	02h	31h	03h
Character		0	

ON

Hexadecimal	02h	31h	03h
Character		1	

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	Yes	Yes	Yes

2.44. Query Installation

Hexadecimal	02h	51h	53h	50h	03h
-------------	-----	-----	-----	-----	-----

Character		Q	S	P	
-----------	--	---	---	---	--

■ Response (Callback)

FRONT-F

Hexadecimal	02h	30h	03h
Character		0	

REAR-F

Hexadecimal	02h	31h	03h
Character		1	

FRONT-C

Hexadecimal	02h	32h	03h
Character		2	

REAR-C

Hexadecimal	02h	33h	03h
Character		3	

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	Yes	Yes	Yes	Yes

2.45. Query Display Language

Hexadecimal	02h	51h	4Ch	47h	03h
Character		Q	L	G	

■ Response (Callback)

In the period when the command can be accepted

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

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	Yes	Yes	Yes	Yes

■ Parameters (*1, *2, *3, *4, *5, *6)

	English			German			French		
Hexadecimal	45h	4Eh	47h	44h	45h	55h	46h	52h	41h
Character	E	N	G	D	E	U	F	R	A
	Spanish			Italian			Japanese		
Hexadecimal	45h	53h	50h	49h	54h	4Ch	4Ah	50h	4Eh
Character	E	S	P	I	T	L	J	P	N
	Chinese			Russian			Korean		
Hexadecimal	43h	48h	49h	52h	55h	53h	4Bh	4Fh	52h
Character	C	H	I	R	U	S	K	O	R
	Portuguese			Swedish			Norwegian		
Hexadecimal	50h	4Fh	52h	53h	56h	45h	4Eh	4Fh	52h
Character	P	O	R	S	V	E	N	O	R
	Danish			Polish			Czech		
Hexadecimal	44h	41h	4Eh	50h	4Fh	4Ch	43h	45h	53h
Character	D	A	N	P	O	L	C	E	S
	Hungarian			Thai					
Hexadecimal	4Dh	41h	47h	54h	48h	41h			
Character	M	A	G	T	H	A			

2.46. 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

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	Yes	Yes	Yes	Yes

■ Parameters (*1, *2, *3, *4, *5, *6, *7, *8)

	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

■ Note:

- It returns with 0000 when the lamp runtime cannot be obtained.

2.47. Query Date

Hexadecimal	02h	51h	47h	44h	03h
Character		Q	G	D	

■ Response (Callback)

Hexadecimal	02h	*y1	*y2	*y3	*y4	*m1	*m2	*d1	*D2	*w	03h
Character											

■ Parameters

*y1—*y4: Year (4 digits)
 *m1, *m2: Month (2 digits)
 *d1, *d2: Day (2 digits)
 *w: Day of the week (Mon = 1, Tue = 2, Wed = 3, Thu = 4, Fri = 5, Sat = 6, Sun = 7)
 Set it by UTC (Coordinated Universal Time).
 Example: Saturday, April 21, 2007

	*y1	*y2	*y3	*y4	*m1	*m2	*d1	*D2	*w
Hexadecimal	32h	30h	30h	37h	30h	34h	32h	31h	31h
Character	2	0	0	7	0	4	2	1	1

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	Yes	Yes	Yes	Yes

2.48. Query Time

Hexadecimal	02h	51h	47h	54h	03h
Character		Q	G	T	

■ Response (Callback)

Hexadecimal	02h	*h1	*h2	*m1	*m2	*s1	*s2	03h
Character								

■ Parameters

*h1, *h2: Hour (2 digits)
 *m1, *m2: Minute (2 digits)
 *s1, *s2: Second (2 digits)
 Set it by UTC (Coordinated Universal Time).
 Example: 3 seconds at 3:45 p.m.

	*h1	*h2	*m1	*m2	*s1	*s2
Hexadecimal	31h	35h	34h	35h	30h	33h
Character	1	5	4	5	0	3

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	Yes	Yes	Yes	Yes

2.49. Query Filter Remaining Time

Hexadecimal	02h	51h	46h	49h	3Ah	35h	03h
Character		Q	F	I	:	5	

■ Response(Callback)

Example:1500hours

Hexadecimal	02h	31h	35h	30h	30h	03h
Character		1	5	0	0	

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	Yes	Yes	Yes

2.50. SIDE BY SIDE key (for FW100NT only)

Hexadecimal	02h	4Fh	44h	57h	03h
Character		O	D	W	

■ Response(Callback)

In the period when the command can be accepted

Hexadecimal	02h	4Fh	44h	57h	03h
Character		O	D	W	

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
No	No	Yes	No	Yes

■ Notes:

It is invalid during FREEZE, INDEX WINDOW, and DIGITAL ZOOM

2.51. Closed Caption (for FW100NTU/F100NTU/F100U only)

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	3A	*1	03h
Character		O	C	C	:	*2	

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
No	No	No	No	Yes

■ Notes:

It is invalid during SIDE BY SIDE, FREEZE, INDEX WINDOW, and DIGITAL ZOOM.

2.52. Query Closed Caption (for FW100NTU/F100NTU/F100U only)

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

■ Response(Callback)

	OFF			CC1			CC2		
Hexadecimal	02h	30h	03h	02h	31h	03h	02h	32h	03h
Character		0			1			2	
	CC3			CC4					
Hexadecimal	02h	33h	03h	02h	34h	03h			
Character		3			4				

Acceptability

SECURITY	STANDBY	NO SIGNAL	SHUTTER	REMOTE
Yes	No	No	Yes	Yes