# < Control Commands >

**Model No.** **PT-EX16KU / EX16KE**

## CONTENTS

## Using the Serial Terminal

## 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) | ID | Separator (semicolon) | Command | End (ETX) |
|---|---|---|---|---|
| 1 byte | 4 bytes | 1 byte | 3 bytes | 1 byte |

Basic control command (with parameter)

| Start (STX) | ID | Separator (semicolon) | Command | Separator (Colon) | Parameters | End (ETX) |
|---|---|---|---|---|---|---|
| 1 byte | 4 bytes | 1 byte | 3 bytes | 1 byte | Undefined length | 1 byte |

Basic control command (subcommand)

| Start (STX) | ID | Separator (semicolon) | Command | Separator (colon) |
|---|---|---|---|---|
| 1 byte | 4 bytes | 1 byte | 3 bytes | 1 byte |

| Subcommand | Operation | Sign | Parameter | END (ETX) |
|---|---|---|---|---|
| 5 bytes | 1 byte | 1 byte | 5 bytes | 1 byte |

Operation

Specifies method of processing the value specified by parameters.

| Code | Description |
|---|---|
| = | Sets the value specified by parameters. |
| _( underbar) | Adds the value specified by the parameters to the current value. |

Sign

Specifies positive or negative of the value specified by parameters.

| Code | Description |
|---|---|
| + | The value specified by the parameter is a positive value or 0 (zero). |
| - | The value specified by the parameter is a negative value. |

Parameter

Specify the setting or adjustment value by right justification (0 is not suppressed).

For example, when the setting value is ‘‘1’’, set is as ‘‘00001’’.

ID of the basic control command

| ID | 4 bytes String |
|---|---|
| ALL | ADZZ |
| ID1 | AD01 |
| ID2 | AD02 |
| ID3 | AD03 |
| ID4 | AD04 |
| ID5 | AD05 |
| ID6 | AD06 |
| ID7 | AD07 |
| ID8 | AD08 |
| ID9 | AD09 |
| ID10 | AD10 |
| ID11 | AD11 |
| ID12 | AD12 |
| ID13 | AD13 |
| ID14 | AD14 |
| ID15 | AD15 |
| ID16 | AD16 |

| ID | 4 bytes String |
|---|---|
| ID17 | AD17 |
| ID18 | AD18 |
| ID19 | AD19 |
| ID20 | AD20 |
| ID21 | AD21 |
| ID22 | AD22 |
| ID23 | AD23 |
| ID24 | AD24 |
| ID25 | AD25 |
| ID26 | AD26 |
| ID27 | AD27 |
| ID28 | AD28 |
| ID29 | AD29 |
| ID30 | AD30 |
| ID31 | AD31 |
| ID32 | AD32 |
| ID33 | AD33 |

| ID | 4 bytes String |
|---|---|
| ID34 | AD34 |
| ID35 | AD35 |
| ID36 | AD36 |
| ID37 | AD37 |
| ID38 | AD38 |
| ID39 | AD39 |
| ID40 | AD40 |
| ID41 | AD41 |
| ID42 | AD42 |
| ID43 | AD43 |
| ID44 | AD44 |
| ID45 | AD45 |
| ID46 | AD46 |
| ID47 | AD47 |
| ID48 | AD48 |
| ID49 | AD49 |
| ID50 | AD50 |

| ID | 4 bytes String |
|---|---|
| ID51 | AD51 |
| ID52 | AD52 |
| ID53 | AD53 |
| ID54 | AD54 |
| ID55 | AD55 |
| ID56 | AD56 |
| ID57 | AD57 |
| ID58 | AD58 |
| ID59 | AD59 |
| ID60 | AD60 |
| ID61 | AD61 |
| ID62 | AD62 |
| ID63 | AD63 |
| ID64 | AD64 |
| | |
| | |
| | |

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 exists

| Hexadecimal | 02h | 45h | | 3452h h | 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 | |

Attention:

- No command may be sent or received for 10 to 60 seconds after the lamp starts lighting. They sending any command after that period has elapsed.
- 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

Note:

- This projector will respond to the computer only in the following case:

If sent ID coincides with projector ID.

The sent ID is ALL.

## 2. Basic Control Command

**Explanatory notes**

○ : Enable

× : Disable

### 2.1. Power ON (LAMP ON)

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 50h | 4Fh | 4Eh | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | 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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | ○ | × | × | × |

Notes:

- 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 (Stand-by)

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 50h | 4Fh | 46h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | 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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | ○ | ○ | ○ |

Notes:

- 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. FREEZE

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 46h | 5Ah | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | O | F | Z | : | *2 | |

Parameters (*1,*2)

| | Freeze OFFF | 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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | × | × | ○ |

### 2.4. AUTO SETUP

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 41h | 53h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | 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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | ○ | ○ | ○ |

Note:

- This command is acceptable only when analog RGB signal is input.

## 2.5. SHUTTER

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 53h | 48h | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | 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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.6. INPUT SELECT

[Standnard Input]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 49h | 49h | 53h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | I | I | S | : |
| Hexadecimal | *1 | *3 | *5 | 03h | | | | | | |
| Character | *2 | *4 | *6 | | | | | | | |

Parameters

[Standnard Input] (*1,*2,*3,*4,*5,*6)

| | PC1 | | | PC2 | | | RGB1 | | |
|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 50h | 43h | 31h | 50h | 43h | 32h | 52h | 47h | 31h |
| Character | P | C | 1 | P | C | 2 | R | G | 1 |
| | RGB2 | | | VIDEO | | | S-VIDEO | | |
| Hexadecimal | 52h | 47h | 32h | 56h | 49h | 44h | 53h | 56h | 44h |
| Character | R | G | 2 | V | I | D | S | V | D |
| | DVI | | | HDMI | | | Scart | | |
| Hexadecimal | 44h | 56h | 49h | 48h | 44h | 31h | 53h | 43h | 54h |
| Character | D | V | I | H | D | 1 | S | C | T |

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 | |

[Slot board Input]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 49h | 49h | 53h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | I | I | S | : |
| Hexadecimal | 41h | 55h | *1 | 2Ch | *3 | *5 | *7 | 03h | | |
| Character | A | U | *2 | , | *4 | *6 | *8 | | | |

Parameters

[Slot board Input] (*1,*2,*3,*4,*5,*6, *7, *8)

| | INPUT3 BNC_RGB | | | | INPUT4 BNC_RGB | | | |
|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 31h | 52h | 47h | 31h | 32h | 52h | 47h | 31h |
| Character | 1 | R | G | 1 | 2 | R | G | 1 |
| | INPUT3 BNC_Video | | | | INPUT4 BNC_Video | | | |
| Hexadecimal | 31h | 56h | 49h | 44h | 32h | 56h | 49h | 44h |
| Character | 1 | V | I | D | 2 | V | I | D |
| | INPUT3 BNC_S-video | | | | INPUT4 BNC_S-video | | | |
| Hexadecimal | 31h | 53h | 56h | 44h | 32h | 53h | 56h | 44h |
| Character | 1 | S | V | D | 2 | S | V | D |
| | INPUT3 DVI_PC-Analog | | | | INPUT4 DVI_PC-Analog | | | |
| Hexadecimal | 31h | 52h | 47h | 32h | 32h | 52h | 47h | 32h |
| Character | 1 | R | G | 2 | 2 | R | G | 2 |
| | INPUT3 DVI_Scart | | | | INPUT4 DVI_Scart | | | |
| Hexadecimal | 31h | 53h | 43h | 54h | 32h | 53h | 43h | 54h |
| Character | 1 | S | C | T | 2 | S | C | T |
| | INPUT3 DVI_PC-Digital | | | | INPUT4 DVI_PC-Digital | | | |
| Hexadecimal | 31h | 44h | 56h | 49h | 32h | 44h | 56h | 49h |
| Character | 1 | D | V | I | 2 | D | V | I |
| | INPUT3 Dual-SDI_SDI1 | | | | INPUT4 Dual-SDI_SDI1 | | | |
| Hexadecimal | 31h | 53h | 44h | 31h | 32h | 53h | 44h | 31h |
| Character | 1 | S | D | 1 | 2 | S | D | 1 |
| | INPUT3 Dual-SDI_SDI2 | | | | INPUT4 Dual-SDI_SDI2 | | | |
| Hexadecimal | 31h | 53h | 44h | 32h | 32h | 53h | 44h | 32h |
| Character | 1 | S | D | 2 | 2 | S | D | 2 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 49h | 49h | 53h | 3Ah | 41h | 55h | *1 | 2Ch |
|---|---|---|---|---|---|---|---|---|---|
| Character | | I | I | S | : | A | U | *2 | , |
| Hexadecimal | *3 | *5 | *7 | 03h | | | | | |
| Character | *4 | *6 | *8 | | | | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.7. TEST PATTERN

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 54h | 53h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | O | T | S | : |
| Hexadecimal | *1 | *3 | 03h | | | | | | | |
| Character | *2 | *4 | | | | | | | | |

Parameters (*1,*2,*3,*4)

| | OFF | | White | | Black | | Color bar (V) | | 16-step gray scale(W→B) | |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 31h | 30h | 32h | 30h | 38h | 36h | 30h |
| Character | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 8 | 6 | 0 |
| | 16-step gray scale (B←W) | | 16-step gray scale (W↓B) | | 16-step gray scale (B↑W) | | Cross (V16 x H12) | | | |
| Hexadecimal | 36h | 31h | 36h | 32h | 32h | 33h | 36h | 34h | | |
| Character | 6 | 1 | 6 | 2 | 6 | 3 | 6 | 4 | | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 4Fh | 54h | 53h | 3Ah | *1 | *3 | 03h |
|---|---|---|---|---|---|---|---|---|
| Character | | O | T | S | : | *2 | *4 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | × |

## 2.8. MENU key

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 4Dh | 4Eh | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | 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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.9. SELECT key

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 45h | 4Eh | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | 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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | ○ | ○ | ○ |

## 2.10. Up key

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 43h | 55h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | 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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | ○ | ○ | ○ |

## 2.11. Down key

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 43h | 44h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | 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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | ○ | ○ | ○ |

## 2.12. Left key

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 43h | 4Ch | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | 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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | ○ | ○ | ○ |

## 2.13. Righ key

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 43h | 52h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | 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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | ○ | ○ | ○ |

## 2.14. SCREEN key

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 53h | 31h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | 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

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.15. NUMERIC key

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 4Eh | 4Bh | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | O | N | K | : | *2 | |

Parameter(*1, *2)

| | 0 key | 1 key | 2 key | 3 key | 4 key | 5 key | 6 key | 7 key | 8 key | 9 key |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 31h | 32h | 33h | 34h | 35h | 36h | 37h | 38h | 39h |
| Character | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

Response(Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 4Fh | 4Eh | 4Bh | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|
| Character | | O | N | K | : | *2 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | ○ | ○ | ○ |

## 2.16. INFO. key

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 53h | 54h | 53h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | S | T | S | |

Response(Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 53h | 54h | 53h | 03h |
|---|---|---|---|---|---|
| Character | | S | T | S | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.17. INSTALLATION

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 49h | 4Ch | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | O | I | L | : | *2 | |

Parameters (*1,*2)

| | FRONT/FLOOR | REAR／FLOOR | FRONT／CEILING | REAR/CEILING |
|---|---|---|---|---|
| Hexadecimal | 30h | 31h | 32h | 33h |
| Character | 0 | 1 | 2 | 3 |

Response(Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 4Fh | 49h | 4Ch | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|
| Character | | O | I | L | : | *2 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.18. FAN CONTROL

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 46h | 4Dh | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | O | F | M | : | *2 | |

Parameters (*1,*2)

| | NORMAL | MAX |
|---|---|---|
| Hexadecimal | 30h | 31h |
| Character | 0 | 1 |

Response(Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 4Fh | 46h | 4Dh | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|
| Character | | O | F | M | : | *2 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.19. LAMP SELECT

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Ch | 50h | 4Dh | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | L | P | M | : | *2 | |

Parameters (*1,*2)

| | Quad | LAMP 1/4 | LAMP 2/3 | Dual |
|---|---|---|---|---|
| Hexadecimal | 30h | 31h | 32h | 33h |
| Character | 0 | 1 | 2 | 3 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 4Ch | 50h | 4Dh | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|
| Character | | L | P | M | : | *2 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

Notes:

- In the case of ‘’ Dual’ , the lamp which has fewer operating hour is used.

## 2.20. LAMP POWER

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 4Ch | 50h | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | O | L | P | : | *2 | |

Parameters (*1,*2)

| | Normal | Auto | Eco 1 | Eco 2 |
|---|---|---|---|---|
| Hexadecimal | 30h | 32h | 33h | 34h |
| Character | 0 | 2 | 3 | 4 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 4Fh | 4Ch | 50h | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|
| Character | | O | L | P | : | *2 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.21. PROJECTOR ID

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 52h | 49h | 53h | 3Ah | *1 | *3 | 03h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | R | I | S | : | *2 | *4 | |

Parameters (*1,*2,*3,*4)

| | 0(ALL) | | 1 | | 2 | |
|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 31h | 30h | 32h |
| Character | 0 | 0 | 0 | 1 | 0 | 2 |
| | 62 | | 63 | | 64 | |
| Hexadecimal | 36h | 32h | 36h | 33h | 36h | 34h |
| Character | 6 | 2 | 6 | 3 | 6 | 4 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 52h | 49h | 53h | 3Ah | *1 | *3 | 03h |
|---|---|---|---|---|---|---|---|---|
| Character | | R | I | S | : | *2 | *4 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.22. PICTURE MODE

[Except Image 10]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 50h | 4Dh | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | P | M | : |
| Hexadecimal | *1 | *3 | *5 | 03h | | | | | | |
| Character | *2 | *4 | *6 | | | | | | | |

Parameters (*1,*2,*3,*4,*5,*6)

| | STANDARD | | | DYNAMIC | | | CINEMA | | |
|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 53h | 54h | 44h | 44h | 59h | 4Eh | 43h | 49h | 4Eh |
| Character | S | T | D | D | Y | N | C | I | N |
| | REAL | | | IMAGE 1 | | | IMAGE 2 | | |
| Hexadecimal | 52h | 45h | 41h | 49h | 4Dh | 31h | 49h | 4Dh | 32h |
| Character | R | E | A | I | M | 1 | I | M | 2 |
| | IMAGE 3 | | | IMAGE 4 | | | IMAGE 5 | | |
| Hexadecimal | 49h | 4Dh | 33h | 49h | 4Dh | 34h | 49h | 4Dh | 35h |
| Character | I | M | 3 | I | M | 4 | I | M | 5 |
| | IMAGE 6 | | | IMAGE 7 | | | IMAGE 8 | | |
| Hexadecimal | 49h | 4Dh | 36h | 49h | 4Dh | 37h | 49h | 4Dh | 38h |
| Character | I | M | 6 | I | M | 7 | I | M | 8 |
| | IMAGE 9 | | | | | | | | |
| Hexadecimal | 49h | 4Dh | 39h | | | | | | |
| Character | I | M | 9 | | | | | | |

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 | |

[Image 10]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 50h | 4Dh | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | P | M | : |
| Hexadecimal | *1 | *3 | *5 | *7 | 03h | | | | | |
| Character | *2 | *4 | *6 | *8 | | | | | | |

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

| | IMAGE 10 | | | |
|---|---|---|---|---|
| Hexadecimal | 49h | 4Dh | 31h | 30h |
| Character | I | M | 1 | 0 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 50h | 4Dh | 3Ah | *1 | *3 | *5 | *7 | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | V | P | M | : | *2 | *4 | *6 | *8 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | × |

## 2.23. COLOR

[Absolute assignemnt]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 43h | 4Fh | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | C | O | : |
| Hexadecimal | *1 | *3 | *5 | 03h | | | | | | |
| Character | *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 | 56h | 43h | 4Fh | 3Ah | *1 | *3 | *5 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | C | O | : | *2 | *4 | *6 | |

[Relative assignemnt]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 43h | 4Fh | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | C | O | : |
| Hexadecimal | *1 | 3Dh | *3 | 03h | | | | | | |
| Character | *2 | = | *4 | | | | | | | |

Parameters (*1,*2,*3,*4)

| | -9 | | -8 | | -1 | | -0 | |
|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 2Dh | 39h | 2Dh | 38h | 2Dh | 31h | 2Dh | 30h |
| Character | - | 9 | - | 8 | - | 1 | - | 0 |
| | +0 | | +1 | | +8 | | +9 | |
| Hexadecimal | 2Bh | 30h | 2Bh | 31h | 2Bh | 38h | 2Bh | 39h |
| Character | + | 0 | + | 1 | +8 | +9 | | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 43h | 4Fh | 3Ah | *1 | 3Dh | *3 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | C | O | : | *2 | = | *4 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.24. TINT

[Absolute assignemnt]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 54h | 4Eh | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | T | N | : |
| Hexadecimal | *1 | *3 | *5 | 03h | | | | | | |
| Character | *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 | 56h | 54h | 4Eh | 3Ah | *1 | *3 | *5 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | T | N | : | *2 | *4 | *6 | |

[Relative assignemnt]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 54h | 4Eh | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | T | N | : |
| Hexadecimal | *1 | 3Dh | *3 | 03h | | | | | | |
| Character | *2 | = | *4 | | | | | | | |

Parameters (*1,*2,*3,*4)

| | -9 | | -8 | | -1 | | -0 | |
|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 2Dh | 39h | 2Dh | 38h | 2Dh | 31h | 2Dh | 30h |
| Character | - | 9 | - | 8 | - | 1 | - | 0 |
| | +0 | | +1 | | +8 | | +9 | |
| Hexadecimal | 2Bh | 30h | 2Bh | 31h | 2Bh | 38h | 2Bh | 39h |
| Character | + | 0 | + | 1 | +8 | +9 | | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 54h | 4Eh | 3Ah | *1 | 3Dh | *3 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | T | N | : | *2 | = | *4 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.25. COLOR TEMPERATURE

[Low, Mid,High]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 54h | 45h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | O | T | E | : |
| Hexadecimal | *1 | 03h | | | | | | | | |
| Character | *2 | | | | | | | | | |

Parameters (*1,*2)

| | Low | Mid | High |
|---|---|---|---|
| Hexadecimal | 31h | 32h | 33h |
| Character | 1 | 2 | 3 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 4Fh | 54h | 45h | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|
| Character | | O | T | E | : | *2 | |

[XLow]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 54h | 45h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | O | T | E | : |
| Hexadecimal | *1 | *3 | 03h | | | | | | | |
| Character | *2 | *4 | | | | | | | | |

Parameters (*1,*2)

| | XLow | |
|---|---|---|
| Hexadecimal | 30h | 31h |
| Character | 0 | 1 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 4Fh | 54h | 45h | 3Ah | *1 | *3 | 03h |
|---|---|---|---|---|---|---|---|---|
| Character | | O | T | E | : | *2 | *4 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.26. WHITE BALANCE LOW - RED

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 4Fh | 52h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | O | R | : |
| Hexadecimal | *1 | *3 | *5 | 03h | | | | | | |
| Character | *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 | 56h | 4Fh | 52h | 3Ah | *1 | *3 | *5 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | O | R | : | *2 | *4 | *6 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.27. WHITE BALANCE LOW - GREEN

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 4Fh | 47h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | O | G | : |
| Hexadecimal | *1 | *3 | *5 | 03h | | | | | | |
| Character | *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 | 56h | 4Fh | 47h | 3Ah | *1 | *3 | *5 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | O | G | : | *2 | *4 | *6 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.28. WHITE BALANCE LOW - BLUE

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 4Fh | 42h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | O | B | : |
| Hexadecimal | *1 | *3 | *5 | 03h | | | | | | |
| Character | *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 | 56h | 4Fh | 42h | 3Ah | *1 | *3 | *5 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | O | B | : | *2 | *4 | *6 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.29. WHITE BALANCE HIGH - RED

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 48h | 52h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | H | R | : |
| Hexadecimal | *1 | *3 | *5 | 03h | | | | | | |
| Character | *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 | 56h | 48h | 52h | 3Ah | *1 | *3 | *5 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | H | R | : | *2 | *4 | *6 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | × |

## 2.30. WHITE BALANCE HIGH - GREEN

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 48h | 47h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | H | G | : |
| Hexadecimal | *1 | *3 | *5 | 03h | | | | | | |
| Character | *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 | 56h | 48h | 47h | 3Ah | *1 | *3 | *5 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | H | G | : | *2 | *4 | *6 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.31. WHITE BALANCE HIGH - BLUE

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 48h | 42h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | H | B | : |
| Hexadecimal | *1 | *3 | *5 | 03h | | | | | | |
| Character | *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 | 56h | 48h | 42h | 3Ah | *1 | *3 | *5 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | H | B | : | *2 | *4 | *6 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.32. CONTRAST

[Absolute assignment]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 43h | 4Eh | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | C | N | : |
| Hexadecimal | *1 | *3 | *5 | 03h | | | | | | |
| Character | *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 | 56h | 43h | 4Eh | 3Ah | *1 | *3 | *5 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | C | N | : | *2 | *4 | *6 | |

[Relative assignment]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 43h | 4Eh | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | C | N | : |
| Hexadecimal | *1 | 3Dh | *3 | 03h | | | | | | |
| Character | *2 | = | *4 | | | | | | | |

Parameters (*1,*2,*3,*4)

| | -9 | | -8 | | -1 | | -0 | |
|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 2Dh | 39h | 2Dh | 38h | 2Dh | 31h | 2Dh | 30h |
| Character | - | 9 | - | 8 | - | 1 | - | 0 |
| | +0 | | +1 | | +8 | | +9 | |
| Hexadecimal | 2Bh | 30h | 2Bh | 31h | 2Bh | 38h | 2Bh | 39h |
| Character | + | 0 | + | 1 | +8 | +9 | | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 43h | 4Eh | 3Ah | *1 | 3Dh | *3 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | C | N | : | *2 | = | *4 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.33. BRIGHTNESS

[Absolute assignment]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 42h | 52h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | B | R | : |
| Hexadecimal | *1 | *3 | *5 | 03h | | | | | | |
| Character | *2 | *4 | *6 | | | | | | | |

Parameters (*1,*2,*3,*4,*5,*6)

| | 0 | | | 1 | | | 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 31h | 30h | 30h | 31h | 30h | 30h | 32h |
| Character | 0 | 0 | 1 | 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 | 56h | 42h | 52h | 3Ah | *1 | *3 | *5 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | B | R | : | *2 | *4 | *6 | |

[Relative assignment]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 42h | 52h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | B | R | : |
| Hexadecimal | *1 | 3Dh | *3 | 03h | | | | | | |
| Character | *2 | = | *4 | | | | | | | |

Parameters (*1,*2,*3,*4)

| | -9 | | -8 | | -1 | | -0 | |
|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 2Dh | 39h | 2Dh | 38h | 2Dh | 31h | 2Dh | 30h |
| Character | - | 9 | - | 8 | - | 1 | - | 0 |
| | +0 | | +1 | | +8 | | +9 | |
| Hexadecimal | 2Bh | 30h | 2Bh | 31h | 2Bh | 38h | 2Bh | 39h |
| Character | + | 0 | + | 1 | +8 | +9 | | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 42h | 52h | 3Ah | *1 | 3Dh | *3 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | B | R | : | *2 | = | *4 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.34. GAMMA MODE

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 47h | 41h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | G | A | : |
| Hexadecimal | *1 | *3 | *5 | 03h | | | | | | |
| Character | *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 |
| | 13 | | | 14 | | | 15 | | |
| Hexadecimal | 30h | 31h | 33h | 30h | 31h | 34h | 30h | 31h | 35h |
| Character | 0 | 1 | 3 | 0 | 1 | 4 | 0 | 1 | 5 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 47h | 41h | 3Ah | *1 | *3 | *5 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | G | A | : | *2 | *4 | *6 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.35. SHARPNESS

[Absolute assignment]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 53h | 52h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | S | R | : |
| Hexadecimal | *1 | *3 | *5 | 03h | | | | | | |
| Character | *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 |
| | 29 | | | 30 | | | 31 | | |
| Hexadecimal | 30h | 32h | 39h | 30h | 33h | 30h | 30h | 33h | 31h |
| Character | 0 | 2 | 9 | 0 | 3 | 0 | 0 | 3 | 1 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 53h | 52h | 3Ah | *1 | *3 | *5 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | S | R | : | *2 | *4 | *6 | |

[Relative assignment]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 53h | 52h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | S | R | : |
| Hexadecimal | *1 | 3Dh | *3 | 03h | | | | | | |
| Character | *2 | = | *4 | | | | | | | |

Parameters (*1,*2,*3,*4)

| | -9 | | -8 | | -1 | | -0 | |
|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 2Dh | 39h | 2Dh | 38h | 2Dh | 31h | 2Dh | 30h |
| Character | - | 9 | - | 8 | - | 1 | - | 0 |
| | +0 | | +1 | | +8 | | +9 | |
| Hexadecimal | 2Bh | 30h | 2Bh | 31h | 2Bh | 38h | 2Bh | 39h |
| Character | + | 0 | + | 1 | +8 | +9 | | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 53h | 52h | 3Ah | *1 | 3Dh | *3 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | S | R | : | *2 | = | *4 | |

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.36. NOISE REDUCTION

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 4Eh | 53h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | N | S | : |
| Hexadecimal | *1 | 03h | | | | | | | | |
| Character | *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 | 56h | 4Eh | 53h | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|
| Character | | V | N | S | : | *2 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.37. PROGRESSIVE

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 50h | 44h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | O | P | D | : |
| Hexadecimal | *1 | 03h | | | | | | | | |
| Character | *2 | | | | | | | | | |

Parameters (*1,*2)

| | FILM | OFF | ON |
|---|---|---|---|
| Hexadecimal | 30h | 31h | 32h |
| Character | 0 | 1 | 2 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 4Fh | 50h | 44h | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|
| Character | | O | A | I | : | *2 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.38. TV - SYSTEM

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 53h | 47h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | S | G | : |
| Hexadecimal | *1 | *3 | *5 | 03h | | | | | | |
| Character | *2 | *4 | *6 | | | | | | | |

Parameters (*1,*2,*3,*4,*5,*6)

| | AUTO | | | | | | NTSC | | |
|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 41h | 54h | 31h | 41h | 54h | 32h | 4Eh | 54h | 53h |
| Character | A | T | 1 | A | T | 2 | N | T | S |
| | NTSC4.43 | | | PAL | | | PAL-M | | |
| Hexadecimal | 4Eh | 34h | 34h | 50h | 41h | 4Ch | 50h | 41h | 4Dh |
| Character | N | 4 | 4 | P | A | L | P | A | M |
| | PAL-N | | | SECAM | | | | | |
| Hexadecimal | 50h | 41h | 4Eh | 53h | 45h | 43h | | | |
| Character | P | A | N | S | E | C | | | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 53h | 47h | 3Ah | *1 | *3 | *5 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | S | G | : | *2 | *4 | *6 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.39. SHIFT HORIZONTAL

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 54h | 48h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | T | H | : |
| Hexadecimal | *1 | *3 | *5 | *7 | 03h | | | | | |
| Character | *2 | *4 | *6 | *8 | | | | | | |

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

| | 0 | | | | 1 | | | | 2 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 31h | 30h | 30h | 30h | 32h |
| Character | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| | 4093 | | | | 4094 | | | | 4095 | | | |
| Hexadecimal | 34h | 30h | 39h | 33h | 34h | 30h | 39h | 34h | 34h | 30h | 39h | 35h |
| Character | 4 | 0 | 9 | 3 | 4 | 0 | 9 | 4 | 4 | 0 | 9 | 5 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 54h | 48h | 3Ah | *1 | *3 | *5 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | T | H | : | *2 | *4 | *6 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

Notes:

This sets the horizontal position of computer signal.

The value set with this command cannot be momorized in the projector, therefore, the value will restore when the power is off.

## 2.40. SHIFT VERTICAL

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 54h | 56h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | T | V | : |
| Hexadecimal | *1 | *3 | *5 | *7 | 03h | | | | | |
| Character | *2 | *4 | *6 | *8 | | | | | | |

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

| | 1 | | | | 2 | | | | 3 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 31h | 30h | 30h | 30h | 32h | 30h | 30h | 30h | 33h |
| Character | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 |
| | 4092 | | | | 4093 | | | | 4094 | | | |
| Hexadecimal | 34h | 30h | 39h | 32h | 34h | 30h | 39h | 33h | 34h | 30h | 39h | 34h |
| Character | 4 | 0 | 9 | 2 | 4 | 0 | 9 | 3 | 4 | 0 | 9 | 4 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 54h | 56h | 3Ah | *1 | *3 | *5 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | T | V | : | *2 | *4 | *6 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

Note:

This sets the vertical position of computer signal.

The value set with this command cannot be momorized in the projector, therefore, the value will restore when the power is off.

## 2.41. ASPECT

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 53h | 45h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | S | E | : |
| Hexadecimal | *1 | *3 | 03h | | | | | | | |
| Character | *2 | *4 | | | | | | | | |

Parameters (*1,*2,*3,*4)

Input signal: Video signal

| | NORMAL | WIDE | FULL | ZOOM | | CUSTOM | |
|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 32h | 36h | 34h | 30h | 35h | 30h |
| Character | 0 | 2 | 6 | 4 | 0 | 5 | 0 |

Input signal: Computer signal

| | NORMAL | WIDE | REAL | FULL | ZOOM | |
|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 32h | 35h | 36h | 34h | 30h |
| Character | 0 | 2 | 5 | 6 | 4 | 0 |

| | CUSTOM | |
|---|---|---|
| Hexadecimal | 35h | 30h |
| Character | 5 | 0 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 53h | 45h | 3Ah | *1 | *3 | 03h |
|---|---|---|---|---|---|---|---|---|
| Character | | V | S | E | : | *2 | *4 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.42. CLOCK PHASE

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 43h | 50h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | C | P | : |
| Hexadecimal | *1 | *3 | *5 | 03h | | | | | | |
| Character | *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 |
| | 29 | | | 30 | | | 31 | | |
| Hexadecimal | 30h | 32h | 39h | 30h | 33h | 30h | 30h | 33h | 31h |
| Character | 0 | 2 | 9 | 0 | 3 | 0 | 0 | 3 | 1 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 43h | 50h | 3Ah | *1 | *3 | *5 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | V | C | P | : | *2 | *4 | *6 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | × | ○ | × |

| VIDEO | S-VIDEO | RGB1 | RGB2 | $YP_BP_R1$ | $YP_BP_R2$ | DVI | HDMI | SDI |
|---|---|---|---|---|---|---|---|---|
| × | × | ○ | ○ | × | × | × | × | × |

Note:

This sets the clock phase of computer signal.

The value set with this command cannot be momorized in the projector, therefore, the value will restore when the power is off.

## 2.43. INPUT RESOLUTION - TOTAL DOTS

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 54h | 44h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | T | D | : |
| Hexadecimal | *1 | *3 | *5 | *7 | 03h | | | | | |
| Character | *2 | *4 | *6 | *8 | | | | | | |

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

| | 330 | | | | 331 | | | |
|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 33h | 33h | 30h | 30h | 33h | 33h | 31h |
| Character | 0 | 3 | 3 | 0 | 0 | 3 | 3 | 1 |
| | 4095 | | | | 4096 | | | |
| Hexadecimal | 34h | 30h | 39h | 35h | 34h | 30h | 39h | 36h |
| Character | 4 | 0 | 9 | 5 | 4 | 0 | 9 | 6 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 54h | 44h | 3Ah | *1 | *3 | *5 | *7 | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | V | T | D | : | *2 | *4 | *6 | *8 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | × | ○ | × |

| VIDEO | S-VIDEO | RGB1 | RGB2 | $YP_BP_R1$ | $YP_BP_R2$ | DVI | HDMI | SDI |
|---|---|---|---|---|---|---|---|---|
| × | × | ○ | ○ | × | × | × | × | × |

Note:

This sets the total dots of computer signal.

The value set with this command cannot be momorized in the projector, therefore, the value will restore when the power is off.

## 2.44. INPUT RESOLUTION DISPLAY DOTS

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 44h | 44h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | D | D | : |
| Hexadecimal | *1 | *3 | *5 | *7 | 03h | | | | | |
| Character | *2 | *4 | *6 | *8 | | | | | | |

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

| | 256 | | | | 257 | | | |
|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 32h | 35h | 36h | 30h | 32h | 35h | 37h |
| Character | 0 | 2 | 5 | 6 | 0 | 2 | 5 | 7 |
| | 2065 | | | | 2066 | | | |
| Hexadecimal | 32h | 30h | 36h | 35h | 32h | 30h | 36h | 36h |
| Character | 2 | 0 | 6 | 5 | 2 | 0 | 6 | 6 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 44h | 44h | 3Ah | *1 | *3 | *5 | *7 | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | V | D | D | : | *2 | *4 | *6 | *8 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | × | ○ | × |

| VIDEO | S-VIDEO | RGB1 | RGB2 | $YP_BP_R1$ | $YP_BP_R2$ | DVI | HDMI | SDI |
|---|---|---|---|---|---|---|---|---|
| × | × | ○ | ○ | × | × | × | × | × |

Notes:

This sets the display dots of computer signal.

The value set with this command cannot be momorized in the projector, therefore, the value will restore when the power is off.

The maximum value is [current total dots] – [Position H]. Only this model can set up with even number for display area, therefore, the projector add the number +1 as even number data when receiving the odd number data.

## 2.45. INPUT RESOLUTION - TOTAL LINES

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 44h | 4Ch | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | D | L | : |
| Hexadecimal | *1 | *3 | *5 | *7 | 03h | | | | | |
| Character | *2 | *4 | *6 | *8 | | | | | | |

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

| | 100 | | | | 101 | | | |
|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 31h | 30h | 30h | 30h | 31h | 30h | 31h |
| Character | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| | 1199 | | | | 1200 | | | |
| Hexadecimal | 31h | 31h | 39h | 39h | 31h | 32h | 30h | 30h |
| Character | 1 | 1 | 9 | 9 | 1 | 2 | 0 | 0 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 44h | 4Ch | 3Ah | *1 | *3 | *5 | *7 | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | V | D | L | : | *2 | *4 | *6 | *8 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

| VIDEO | S-VIDEO | RGB1 | RGB2 | $YP_BP_R1$ | $YP_BP_R2$ | DVI | HDMI | SDI |
|---|---|---|---|---|---|---|---|---|
| × | × | ○ | ○ | × | × | × | × | × |

Notes:

This sets the display line of computer signal.

The value set with this command cannot be momorized in the projector, therefore, the value will restore when the power is off.

The maximum value is [current total lines] – [Position V].

## 2.46. CLAMP POSITION

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 4Ch | 54h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | L | T | : |
| Hexadecimal | *1 | *3 | *5 | *7 | 03h | | | | | |
| Character | *2 | *4 | *6 | *8 | | | | | | |

Parameters (*1,*2,*3,*4,*5,*6)

| | 0 | | | | 1 | | | |
|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 31h |
| Character | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 4094 | | | | 4095 | | | |
| Hexadecimal | 34h | 30h | 39h | 34h | 34h | 30h | 39h | 35h |
| Character | 4 | 0 | 9 | 4 | 4 | 0 | 9 | 5 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 4Ch | 54h | 3Ah | *1 | *3 | *5 | *7 | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | V | L | T | : | *2 | *4 | *6 | *8 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | × | ○ | × |

| VIDEO | S-VIDEO | RGB1 | RGB2 | $YP_BP_R1$ | $YP_BP_R2$ | DVI | HDMI | SDI |
|---|---|---|---|---|---|---|---|---|
| × | × | ○ | ○ | ○ | ○ | × | × | × |

Notes:

This sets the clamp of computer signal.

The value set with this command cannot be momorized in the projector, therefore, the value will restore when the power is off.

## 2.47. GEOMETRY: KEYSTONE - VERTICAL KEYSTONE

[Absolute assignemnt]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 58h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | X | X | : |
| Hexadecimal | 47h | 4Dh | 4Bh | 49h | 31h | 3Dh | *1 | *3 | *5 | *7 |
| Character | G | M | K | I | 1 | = | *2 | *4 | *6 | *8 |
| Hexadecimal | *9 | *11 | 03h | | | | | | | |
| Character | *10 | *12 | | | | | | | | |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10,*11,*12)

| | -80 | | | | | | -79 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 2Dh | 30h | 30h | 30h | 38h | 30h | 2Dh | 30h | 30h | 30h | 37h | 39h |
| Character | ― | 0 | 0 | 0 | 8 | 0 | ― | 0 | 0 | 0 | 7 | 9 |
| | 79 | | | | | | 80 | | | | | |
| Hexadecimal | 2Bh | 30h | 30h | 30h | 37h | 39 | 2Bh | 30h | 30h | 30h | 38h | 30h |
| Character | + | 0 | 0 | 0 | 7 | 9 | + | 0 | 0 | 0 | 8 | 0 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 58h | 58h | 3Ah | 47h | 4Dh | 4Bh | 49h | 31h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | V | X | X | : | G | M | K | I | 1 |
| Hexadecimal | 3Dh | *1 | *3 | *5 | *7 | *9 | *11 | 03h | | |
| Character | = | *2 | *4 | *6 | *8 | *10 | *12 | | | |

[Relative assignemnt]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 58h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | X | X | : |
| Hexadecimal | 47h | 4Dh | 4Bh | 49h | 31h | *1 | 3Dh | *3 | *5 | *7 |
| Character | G | M | K | I | 1 | *2 | = | *4 | *6 | *8 |
| Hexadecimal | *9 | *11 | 03h | | | | | | | |
| Character | *10 | *12 | | | | | | | | |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10,*11,*12)

| | +1 | | | | | | +2 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 2Bh | 30h | 30h | 30h | 30h | 31h | 2Bh | 30h | 30h | 30h | 30h | 32h |
| Character | + | 0 | 0 | 0 | 0 | 1 | + | 0 | 0 | 0 | 0 | 2 |
| | -1 | | | | | | -2 | | | | | |
| Hexadecimal | 2Dh | 30h | 30h | 30h | 30h | 31h | 2Dh | 30h | 30h | 30h | 30h | 32h |
| Character | ― | 0 | 0 | 0 | 0 | 1 | ― | 0 | 0 | 0 | 0 | 2 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 58h | 58h | 3Ah | 47h | 4Dh | 4Bh | 49h | 31h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | V | X | X | : | G | M | K | I | 1 |
| Hexadecimal | *1 | 3Dh | *3 | *5 | *7 | *9 | *11 | 03h | | |
| Character | *2 | = | *4 | *6 | *8 | *10 | *12 | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | ○ | ○ | ○ | ○ |

## 2.48. GEOMETRY: KEYSTONE – HORIZONTAL KEYSTONE

[Absolute assignemnt]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 58h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | X | X | : |
| Hexadecimal | 47h | 4Dh | 4Bh | 49h | 35h | 3Dh | *1 | *3 | *5 | *7 |
| Character | G | M | K | I | 5 | = | *2 | *4 | *6 | *8 |
| Hexadecimal | *9 | *11 | 03h | | | | | | | |
| Character | *10 | *12 | | | | | | | | |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10,*11,*12)

| | -80 | | | | | | -79 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 2Dh | 30h | 30h | 30h | 38h | 30h | 2Dh | 30h | 30h | 30h | 37h | 39h |
| Character | ― | 0 | 0 | 0 | 8 | 0 | ― | 0 | 0 | 0 | 7 | 9 |
| | 79 | | | | | | 80 | | | | | |
| Hexadecimal | 2Bh | 30h | 30h | 30h | 37h | 39h | 2Bh | 30h | 30h | 30h | 38h | 30h |
| Character | + | 0 | 0 | 0 | 7 | 9 | + | 0 | 0 | 0 | 8 | 0 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 58h | 58h | 3Ah | 47h | 4Dh | 4Bh | 49h | 35h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | V | X | X | : | G | M | K | I | 5 |
| Hexadecimal | 3Dh | *1 | *3 | *5 | *7 | *9 | *11 | 03h | | |
| Character | = | *2 | *4 | *6 | *8 | *10 | *12 | | | |

[Relative assignemnt]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 58h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | X | X | : |
| Hexadecimal | 47h | 4Dh | 4Bh | 49h | 35h | *1 | 3Dh | *3 | *5 | *7 |
| Character | G | M | K | I | 5 | *2 | = | *4 | *6 | *8 |
| Hexadecimal | *9 | *11 | 03h | | | | | | | |
| Character | *10 | *12 | | | | | | | | |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10,*11,*12)

| | +1 | | | | | | +2 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 2Bh | 30h | 30h | 30h | 30h | 31h | 2Bh | 30h | 30h | 30h | 30h | 32h |
| Character | + | 0 | 0 | 0 | 0 | 1 | + | 0 | 0 | 0 | 0 | 2 |
| | -1 | | | | | | -2 | | | | | |
| Hexadecimal | 2Dh | 30h | 30h | 30h | 30h | 31h | 2Dh | 30h | 30h | 30h | 30h | 32h |
| Character | — | 0 | 0 | 0 | 0 | 1 | — | 0 | 0 | 0 | 0 | 2 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 58h | 58h | 3Ah | 47h | 4Dh | 4Bh | 49h | 35h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | V | X | X | : | G | M | K | I | 5 |
| Hexadecimal | *1 | 3Dh | *3 | *5 | *7 | *9 | *11 | 03h | | |
| Character | *2 | = | *4 | *6 | *8 | *10 | *12 | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.49. DISPLAY LANGUAGE

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 4Ch | 47h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | O | L | G | : |
| Hexadecimal | *1 | *3 | *5 | 03h | | | | | | |
| Character | *2 | *4 | *6 | | | | | | | |

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 | 41h | 4Ah | 50h | 4Eh |
| Character | E | S | P | I | T | A | 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 | | | | | | | | |
| Hexadecimal | 50h | 4Fh | 52h | | | | | | |
| Character | P | O | R | | | | | | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 4Fh | 4Ch | 47h | 3Ah | *1 | *3 | *5 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | O | L | G | : | *2 | *4 | *6 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.50. SYSTEM Switching

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 52h | 46h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | O | R | F | : |
| Hexadecimal | *1 | 03h | | | | | | | | |
| Character | *2 | | | | | | | | | |

Parameters (*1,*2)

| | $YP_BP_R$ / $YC_BC_R$ |
|---|---|
| Hexadecimal | 31h |
| Character | 1 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 4Fh | 52h | 46h | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|
| Character | | O | R | F | : | *2 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.51. FRAME DELAY

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 58h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | X | X | : |
| Hexadecimal | 46h | 44h | 59h | 49h | 30h | 3Dh | 2Bh | *1 | *3 | *5 |
| Character | F | D | Y | I | 0 | = | + | *2 | *4 | *6 |
| Hexadecimal | *7 | *9 | 03h | | | | | | | |
| Character | *8 | *10 | | | | | | | | |

Parameters ( *1,*2,*3,*4,*5,*6,*7,*8,*9,*10)

| | STANDARD | | | | | SHORT | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 31h |
| Character | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 58h | 58h | 3Ah | 46h | 44h | 59h | 49h | 30h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | V | X | X | : | F | D | Y | I | 0 |
| Hexadecimal | 3Dh | 2Bh | *1 | *3 | *5 | *7 | *9 | 03h | | |
| Character | = | + | *2 | *4 | *6 | *8 | *10 | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.52. EDGE BLENDING

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 58h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | X | X | : |
| Hexadecimal | 45h | 44h | 42h | 49h | 30h | 3Dh | 2Bh | *1 | *3 | *5 |
| Character | E | D | B | I | 0 | = | + | *2 | *4 | *6 |
| Hexadecimal | *7 | *9 | 03h | | | | | | | |
| Character | *8 | *10 | | | | | | | | |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10)

| | OFF | | | | | ON | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 31h |
| Character | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 58h | 58h | 3Ah | 45h | 44h | 42h | 49h | 30h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | V | X | X | : | E | D | B | I | 0 |
| Hexadecimal | 3Dh | 2Bh | *1 | *3 | *5 | *7 | *9 | 03h | | |
| Character | = | + | *2 | *4 | *6 | *8 | *10 | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.53. SCREEN POSITION VERTICAL

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 58h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | X | X | : |
| Hexadecimal | 56h | 53h | 50h | 49h | 30h | 3Dh | *1 | *3 | *5 | *7 |
| Character | V | S | P | I | 0 | = | *2 | *4 | *6 | *8 |
| Hexadecimal | *9 | *11 | 03h | | | | | | | |
| Character | *10 | *12 | | | | | | | | |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10,*11,*12)

| | -15 | | | | | | -14 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 2Dh | 30h | 30h | 30h | 31h | 35h | 2Dh | 30h | 30h | 30h | 31h | 34h |
| Character | — | 0 | 0 | 0 | 1 | 5 | — | 0 | 0 | 0 | 1 | 4 |
| | 14 | | | | | | 15 | | | | | |
| Hexadecimal | 2Bh | 30h | 30h | 30h | 31h | 34h | 2Bh | 30h | 30h | 30h | 31h | 35h |
| Character | + | 0 | 0 | 0 | 1 | 4 | + | 0 | 0 | 0 | 1 | 5 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 58h | 58h | 3Ah | 56h | 53h | 50h | 49h | 30h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | V | X | X | : | V | S | P | I | 0 |
| Hexadecimal | 3Dh | *1 | *3 | *5 | *7 | *9 | *11 | 03h | | |
| Character | = | *2 | *4 | *6 | *8 | *10 | *12 | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.54. SCREEN POSITION HORIZONTAL

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 58h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | X | X | : |
| Hexadecimal | 48h | 53h | 50h | 49h | 30h | 3Dh | *1 | *3 | *5 | *7 |
| Character | H | S | P | I | 0 | = | *2 | *4 | *6 | *8 |
| Hexadecimal | *9 | *11 | 03h | | | | | | | |
| Character | *10 | *12 | | | | | | | | |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10,*11,*12)

| | -15 | | | | | | -14 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 2Dh | 30h | 30h | 30h | 31h | 35h | 2Dh | 30h | 30h | 30h | 31h | 34h |
| Character | — | 0 | 0 | 0 | 1 | 5 | — | 0 | 0 | 0 | 1 | 4 |
| | 14 | | | | | | 15 | | | | | |
| Hexadecimal | 2Bh | 30h | 30h | 30h | 31h | 34h | 2Bh | 30h | 30h | 30h | 31h | 35h |
| Character | + | 0 | 0 | 0 | 1 | 4 | + | 0 | 0 | 0 | 1 | 5 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 58h | 58h | 3Ah | 48h | 53h | 50h | 49h | 30h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | V | X | X | : | H | S | P | I | 0 |
| Hexadecimal | 3Dh | *1 | *3 | *5 | *7 | *9 | *11 | 03h | | |
| Character | = | *2 | *4 | *6 | *8 | *10 | *12 | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.55. COLOR MATCHING

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 58h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | X | X | : |
| Hexadecimal | 44h | 4Dh | 41h | 49h | 30h | 3Dh | 2Bh | *1 | *3 | *5 |
| Character | C | M | A | I | 0 | = | + | *2 | *4 | *6 |
| Hexadecimal | *7 | *9 | 03h | | | | | | | |
| Character | *8 | *10 | | | | | | | | |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10)

| | OFF | | | | | MEASURED | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 34h |
| Character | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 58h | 58h | 3Ah | 44h | 4Dh | 41h | 49h | 30h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | V | X | X | : | C | M | A | I | 0 |
| Hexadecimal | 3Dh | 2Bh | *1 | *3 | *5 | *7 | *9 | 03h | | |
| Character | = | + | *2 | *4 | *6 | *8 | *10 | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.56. DVI EDID

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 45h | 44h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | O | E | D | : |
| Hexadecimal | *1 | 03h | | | | | | | | |
| Character | *2 | | | | | | | | | |

Parameters (*1,*2)

| | EDID1 |
|---|---|
| Hexadecimal | 31h |
| Character | 1 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 4Fh | 45h | 44h | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|
| Character | | O | E | D | : | *2 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.57. HDMI

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 56h | 58h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | V | X | X | : |
| Hexadecimal | 48h | 53h | 4Ch | 49h | 30h | 3Dh | 2Bh | *1 | *3 | *5 |
| Character | H | S | L | I | 0 | = | + | *2 | *4 | *6 |
| Hexadecimal | *7 | *9 | 03h | | | | | | | |
| Character | *8 | *10 | | | | | | | | |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10)

| | EXPAND | | | | | NORMAL | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 31h |
| Character | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 58h | 58h | 3Ah | 48h | 53h | 4Ch | 49h | 30h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | V | X | X | : | H | S | L | I | 0 |
| Hexadecimal | 3Dh | 2Bh | *1 | *3 | *5 | *7 | *9 | 03h | | |
| Character | = | + | *2 | *4 | *6 | *8 | *10 | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | × |

## 2.58. POWER MANAGEMENT

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 41h | 46h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | O | A | F | : |
| Hexadecimal | *1 | *3 | 03h | | | | | | | |
| Character | *2 | *2 | I | | | | | | | |

Parameters (*1,*2,*3,*4)

| | OFF | | 1 MIN | | 2 MIN | |
|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 31h | 30h | 32h |
| Character | 0 | 0 | 0 | 1 | 0 | 2 |
| | 28 MIN | | 29 MIN | | 30 MIN | |
| Hexadecimal | 32h | 38h | 32h | 39h | 33h | 30h |
| Character | 2 | 8 | 2 | 9 | 30 | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 44h | 41h | 46h | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|
| Character | | O | A | F | : | *2 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.59. STARTUP LOGO

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Dh | 4Ch | 4Fh | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | M | L | O | : |
| Hexadecimal | *1 | 03h | | | | | | | | |
| Character | *2 | | | | | | | | | |

Parameters (*1,*2)

| | OFF | USER | DEFAULT |
|---|---|---|---|
| Hexadecimal | 30h | 31h | 32h |
| Character | 0 | 1 | 2 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal al | 02h | 4Dh | 4Ch | 4Fh | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|
| Character | | M | L | O | : | *2 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.60. BACK COLOR

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Fh | 42h | 43h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | O | B | C | : |
| Hexadecimal | *1 | 03h | | | | | | | | |
| Character | *2 | | | | | | | | | |

Parameters (*1,*2)

| | BLUE | BLACK | USER |
|---|---|---|---|
| Hexadecimal | 30h | 31h | 32h |
| Character | 0 | 1 | 2 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 4Fh | 42h | 43h | 3Ah | *1 | 03h |
|---|---|---|---|---|---|---|---|
| Character | | O | B | C | : | *2 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.61. FILTER CONTROL

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 4Dh | 46h | 53h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | M | F | S | : |
| Hexadecimal | *1 | 03h | | | | | | | | |
| Character | *2 | | | | | | | | | |

Parameters (*1,*2)

| | NORMAL | SEPCIAL |
|---|---|---|
| Hexadecimal | 33h | 31h |
| Character | 3 | 4 |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 4Dh | 46h | 53h | 3Ah | *1 | 30h |
|---|---|---|---|---|---|---|---|
| Character | | V | X | X | : | *2 | 0 |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| × | × | ○ | ○ | ○ |

## 2.62. Query Power

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 50h | 57h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | 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

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

## 2.63. Query FREEZ

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 46h | 5Ah | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | F | Z | |

Response (Callback)

OFF

| Hexadecimal | 02h | 30h | 03h |
|---|---|---|---|
| Character | | 0 | |

ON

| Hexadecimal | 02h | 31h | 03h |
|---|---|---|---|
| Character | | 1 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

## 2.64. Query SHUTTER

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 53h | 48h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | S | H | |

Response (Callback)

OFF

| Hexadecimal | 02h | 30h | 03h |
|---|---|---|---|
| Character | | 0 | |

ON

| Hexadecimal | 02h | 31h | 03h |
|---|---|---|---|
| Character | | 1 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

## 2.65. Query INPUT SELECT

[Standrd]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 49h | 4Eh | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | I | N | |

Response (Callback)

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

Parameters (*1,*2,*3,*4,*5,*6)

| | RGB1 | | | RGB2 | | | VIDEO | | |
|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 52h | 47h | 31h | 52h | 47h | 32h | 56h | 49h | 44h |
| Character | R | G | 1 | R | G | 2 | V | I | D |
| | S-VIDEO | | | DVI | | | HDMI | | |
| Hexadecimal | 53h | 56h | 44h | 44h | 56h | 49h | 48h | 44h | 31h |
| Character | S | V | D | D | V | I | H | D | 1 |
| | Y,Pb/Cb,Pr/Cr | | | Scart | | | AV HDCP | | |
| Hexadecimal | 52h | 47h | 32h | 53h | 43h | 54h | 44h | 56h | 49h |
| Character | R | G | 2 | S | C | T | D | V | I |

[Slot board]

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 49h | 4Eh | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | I | N | |
| Hexadecimal | 20h | 41h | 55h | *1 | 2Ch | *3 | *5 | *7 | 03h | |
| Character | | A | U | *2 | . | *4 | *6 | *8 | | |

Response (Callback)

| Hexadecimal | 02h | 41h | 55h | *1 | 2Ch | *3 | *5 | *7 | 03h |
|---|---|---|---|---|---|---|---|---|---|
| Character | | A | U | *2 | . | *4 | *6 | *8 | |

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

| | INPUT3 BNC_RGB | | | | INPUT4 BNC_RGB | | | |
|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 31h | 52h | 47h | 31h | 31h | 52h | 47h | 31h |
| Character | 1 | R | G | 1 | 2 | R | G | 1 |
| | INPUT3 BNC_YUV | | | | INPUT4 BNC_YUV | | | |
| Hexadecimal | 31h | 52h | 47h | 31h | 31h | 52h | 47h | 31h |
| Character | 1 | R | G | 1 | 2 | R | G | 1 |
| | INPUT3 BNC_Video | | | | INPUT4 BNC_Video | | | |
| Hexadecimal | 31h | 56h | 49h | 44h | 31h | 56h | 49h | 44h |
| Character | 1 | V | I | D | 2 | V | I | D |
| | INPUT3 BNC_S-video | | | | INPUT4 BNC_S-video | | | |
| Hexadecimal | 31h | 53h | 56h | 44h | 31h | 53h | 56h | 44h |
| Character | 1 | S | V | D | 2 | S | V | D |
| | INPUT3 DVI_PC-Analog | | | | INPUT4 DVI_PC-Analog | | | |
| Hexadecimal | 31h | 52h | 47h | 32h | 31h | 52h | 47h | 32h |
| Character | 1 | R | G | 2 | 2 | R | G | 2 |
| | INPUT3 DVI_Scart | | | | INPUT4 DVI_Scart | | | |
| Hexadecimal | 31h | 53h | 43h | 54h | 31h | 53h | 43h | 54h |
| Character | 1 | S | C | T | 2 | S | C | T |
| | INPUT3 DVI_PC-Digital | | | | INPUT4 DVI_PC-Digital | | | |
| Hexadecimal | 31h | 44h | 56h | 49h | 31h | 44h | 56h | 49h |
| Character | 1 | D | V | I | 2 | D | V | I |
| | INPUT3 DVI_AV HDCP | | | | INPUT4 DVI_AV HDCP | | | |
| Hexadecimal | 31h | 44h | 56h | 49h | 31h | 44h | 56h | 49h |
| Character | 1 | D | V | I | 2 | D | V | I |
| | INPUT3 Dual-SDI_SDI1 | | | | INPUT4 Dual-SDI_SDI1 | | | |
| Hexadecimal | 31h | 53h | 44h | 31h | 31h | 53h | 44h | 31h |
| Character | 1 | S | D | 1 | 2 | S | D | 1 |
| | INPUT3 Dual-SDI_SDI2 | | | | INPUT4 Dual-SDI_SDI2 | | | |
| Hexadecimal | 31h | 53h | 44h | 32h | 31h | 53h | 44h | 32h |
| Character | 1 | S | D | 2 | 2 | S | D | 2 |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

## 2.66. Query TEST PATTERN

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 54h | 53h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | T | S | |

Response (Callback)

In the period when the command can be accepted

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

Parameters (*1,*2,*3,*4)

| | OFF | | White | | Black | | Color bar(V) | |
|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 31h | 30h | 32h | 30h | 38h |
| Character | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 8 |
| | 16-Stpe Gray scale (W→B) | | 16-Stpe Gray scale (W←B) | | 16-Stpe Gray scale (W↓B) | | 16-Stpe Gray scale (W↑B) | |
| Hexadecimal | 36h | 30h | 36h | 31h | 36h | 32h | 36h | 33h |
| Character | 6 | 0 | 6 | 1 | 6 | 2 | 6 | 3 |
| | Cross (H16 x V12) | | | | | | | |
| Hexadecimal | 36h | 34h | | | | | | |
| Character | 6 | 4 | | | | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

## 2.67. Query INSTALLATION

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 53h | 50h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | S | P | |

Response (Callback)

FRONT / FLOOR

| Hexadecimal | 02h | 30h | 03h |
|---|---|---|---|
| Character | | 0 | |

REAR / FLOOR

| Hexadecimal | 02h | 31h | 03h |
|---|---|---|---|
| Character | | 1 | |

FRONT / CEILING

| Hexadecimal | 02h | 32h | 03h |
|---|---|---|---|
| Character | | 2 | |

REAR / CEILING

| Hexadecimal | 02h | 33h | 03h |
|---|---|---|---|
| Character | | 3 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

## 2.68. Query FAN CONTROL

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 46h | 4Dh | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | F | M | |

Response

NORMAL

| Hexadecimal | 02h | 30h | 03h |
|---|---|---|---|
| Character | | 0 | |

HIGH

| Hexadecimal | 02h | 31h | 03h |
|---|---|---|---|
| Character | | 1 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

## 2.69. Query PROJECTOR RUTINE

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 53h | 54h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | S | T | |

Response (Callback)

In the period when the command can be accepted

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

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10)

| | 0h | | | | | 1h | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 31h |
| Character | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 99998h | | | | | 99999h | | | | |
| Hexadecimal | 39h | 39h | 39h | 39h | 38h | 39h | 39h | 39h | 39h | 39h |
| Character | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 9 | 9 | 9 |

## 2.70. Query LAMP 1 RUNTIME

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 24h | 4Ch | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | $ | L | : |
| Hexadecimal | 31h | 03h | | | | | | | | |
| Character | 1 | | | | | | | | | |

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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

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

Answered time ＝(LAMP RUNTIME in Normal and Auto）＋((LAMP RUNTIME in Eco1 and Eco2）×2÷3)

| | 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 |

## 2.71. Query LAMP2 RUNTIME

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 24h | 4Ch | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | $ | L | : |
| Hexadecimal | 32h | 03h | | | | | | | | |
| Character | 2 | | | | | | | | | |

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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

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

Answered time ＝(LAMP RUNTIME in Normal and Auto）＋((LAMP RUNTIME in Eco1 and Eco2）×2÷3)

| | 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 |

## 2.72. Query LAMP3 RUNTIME

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 24h | 4Ch | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | $ | L | : |
| Hexadecimal | 33h | 03h | | | | | | | | |
| Character | 3 | | | | | | | | | |

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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

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

Answered time ＝(LAMP RUNTIME in Normal and Auto）＋((LAMP RUNTIME in Eco1 and Eco2）×2÷3)

| | 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 |

## 2.73. Query LAMP4 RUNTIME

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 24h | 4Ch | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | $ | L | : |
| Hexadecimal | 34h | 03h | | | | | | | | |
| Character | 4 | | | | | | | | | |

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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

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

Answered time ＝(LAMP RUNTIME in Normal and Auto）＋((LAMP RUNTIME in Eco1 and Eco2）×2÷3)

| | 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 |

## 2.74. Query LAMP SELECT

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 53h | 4Ch | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | S | L | |

Response (Callback)

QUAD

| Hexadecimal | 02h | 30h | 03h |
|---|---|---|---|
| Character | | 0 | |

LAMP1/4

| Hexadecimal | 02h | 31h | 03h |
|---|---|---|---|
| Character | | 1 | |

LAMP2/3

| Hexadecimal | 02h | 32h | 03h |
|---|---|---|---|
| Character | | 2 | |

DUAL

| Hexadecimal | 02h | 33h | 03h |
|---|---|---|---|
| Character | | 3 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

## 2.75. Query POWER Status

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 24h | 53h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | $ | S | |

Response (Callback)

STAND0BY

| Hexadecimal | 02h | 30h | 03h |
|---|---|---|---|
| Character | | 0 | |

COUNTDOWN

| Hexadecimal | 02h | 31h | 03h |
|---|---|---|---|
| Character | | 1 | |

POWER ONN

| Hexadecimal | 02h | 32h | 03h |
|---|---|---|---|
| Character | | 2 | |

COOLING

| Hexadecimal | 02h | 33h | 03h |
|---|---|---|---|
| Character | | 3 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

## 2.76. Query LAMP POWER

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 4Ch | 50h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | L | P | |

Response (Callback)

NORMAL

| Hexadecimal | 02h | 30h | 03h |
|---|---|---|---|
| Character | | 0 | |

AUTO

| Hexadecimal | 02h | 31h | 03h |
|---|---|---|---|
| Character | | 1 | |

ECO1

| Hexadecimal | 02h | 33h | 03h |
|---|---|---|---|
| Character | | 3 | |

ECO2

| Hexadecimal | 02h | 34h | 03h |
|---|---|---|---|
| Character | | 4 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

## 2.77. Query LAMP Status

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 4Ch | 53h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | L | S | |

Response (Callback)

Lamp1 OFF, Lamp2 OFF, Lamp3 OFF, Lamp4 OFF

| Hexadecimal | 02h | 30h | 03h |
|---|---|---|---|
| Character | | 0 | |

Lamp1 ON, Lamp2 ON, Lamp3 ON, Lamp4 ON

| Hexadecimal | 02h | 31h | 03h |
|---|---|---|---|
| Character | | 1 | |

Lamp1 ON, Lamp2 OFF, Lamp3 OFF, Lamp4 ON

| Hexadecimal | 02h | 32h | 03h |
|---|---|---|---|
| Character | | 2 | |

Lamp1 OFF, Lamp2 ON, Lamp3 ON, Lamp4 OFF

| Hexadecimal | 02h | 33h | 03h |
|---|---|---|---|
| Character | | 3 | |

Lamp1 OFF, Lamp2 ON, Lamp3 ON, Lamp4 OFF

| Hexadecimal | 02h | 34h | 03h |
|---|---|---|---|
| Character | | 4 | |

Lamp1 ON, Lamp2 ON, Lamp3 OFF, Lamp4 ON

| Hexadecimal | 02h | 35h | 03h |
|---|---|---|---|
| Character | | | |

Lamp1 ON, Lamp2 OFF, Lamp3 ON, Lamp4 ON

| Hexadecimal | 02h | 36h | 03h |
|---|---|---|---|
| Character | | 6 | |

Lamp1 OFF, Lamp2 ON, Lamp3 ON, Lamp4 ON

| Hexadecimal | 02h | 37h | 03h |
|---|---|---|---|
| Character | | 7 | |

Lamp1 ON, Lamp2 OFF, Lamp3 OFF, Lamp4 OFF

| Hexadecimal | 02h | 38h | 03h |
|---|---|---|---|
| Character | | 8 | |

Lamp1 ON, Lamp2 ON, Lamp3 ON, Lamp4 ON

| Hexadecimal | 02h | 39h | 03h |
|---|---|---|---|
| Character | | 9 | |

Lamp1 OFF, Lamp2 ON, Lamp3 OFF, Lamp4 OFF

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

Lamp1 OFF, Lamp2 OFF, Lamp3 OFF, Lamp4 ON

| Hexadecimal | 02h | 31h | 31h | 03h |
|---|---|---|---|---|
| Character | | 1 | 1 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

## 2.78. Query PICTURE MODE

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 50h | 4Dh | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | P | M | |

[Except Image 10]

Response (Callback)

In the period when the command can be accepted

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

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

Parameters (*1,*2,*3,*4,*5,*6)

| | Standard | | | Dynamic | | | Cinema | | |
|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 53h | 54h | 44h | 44h | 59h | 4Eh | 43h | 49h | 4Eh |
| Character | S | T | D | D | Y | N | C | I | N |
| | Real | | | Image 1 | | | Image 2 | | |
| Hexadecimal | 52h | 45h | 41h | 49h | 4Dh | 31h | 49h | 4Dh | 32h |
| Character | R | E | A | I | M | 1 | I | M | 2 |
| | Image 3 | | | Image 4 | | | Image 5 | | |
| Hexadecimal | 49h | 4Dh | 33h | 49h | 4Dh | 34h | 49h | 4Dh | 35h |
| Character | I | M | 3 | I | M | 4 | I | M | 5 |
| | Image 6 | | | Image 7 | | | Image 8 | | |
| Hexadecimal | 49h | 4Dh | 36h | 49h | 4Dh | 37h | 49h | 4Dh | 38h |
| Character | I | M | 6 | I | M | 7 | I | M | 8 |
| | Image 9 | | | | | | | | |
| Hexadecimal | 49h | 4Dh | 39h | | | | | | |
| Character | I | M | 9 | | | | | | |

[Image 10]

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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

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

| | Image 10 | | | |
|---|---|---|---|---|
| Hexadecimal | 49h | 4Dh | 31h | 30h |
| Character | I | M | 1 | 0 |

## 2.79. Query COLOR

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 56h | 43h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | 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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | × | ○ | ○ |

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 |

Note

If input signal is for cumputer, ER401 is returned.

## 2.80. Query TINT

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 56h | 54h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | 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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | × | ○ | ○ |

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 |

Note

If input signal is for computer, PAL, PAL-M/N or SECAM, ER401 is returned.

## 2.81. Query COLOR TEMPERATURE

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 54h | 45h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | T | E | |

Response (Callback)

XLow

| Hexadecimal | 02h | 31h | 31h | 03h |
|---|---|---|---|---|
| Character | | 1 | 1 | |

Low

| Hexadecimal | 02h | 31h | 03h |
|---|---|---|---|
| Character | | 1 | |

Mid

| Hexadecimal | 02h | 32h | 03h |
|---|---|---|---|
| Character | | 2 | |

High.

| Hexadecimal | 02h | 33h | 03h |
|---|---|---|---|
| Character | | 3 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

## 2.82. Query WHITE BALANCE LOW - RED

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 4Fh | 52h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | O | R | |

Response (Callback)

In the period when the command can be accepted

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

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

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 |

## 2.83. Query WHITE BALANCE LOW - GREEN

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 4Fh | 47h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | O | G | |

Response (Callback)

In the period when the command can be accepted

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

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

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 |

## 2.84. Query WHITE BALANCE LOW - BLUE

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 4Fh | 42h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | O | B | |

Response (Callback)

In the period when the command can be accepted

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

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

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 |

## 2.85. Query WHITE BALANCE HIGH - RED

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 48h | 52h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | H | R | |

Response (Callback)

In the period when the command can be accepted

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

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

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 |

## 2.86. Query WHITE BALANCE HIGH - GREEN

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 48h | 47h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | H | G | |

Response (Callback)

In the period when the command can be accepted

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

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

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 |

## 2.87. Query WHITE BALANCE HIGH - BULE

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 48h | 42h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | H | B | |

Response (Callback)

In the period when the command can be accepted

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

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

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 |

## 2.88. Query CONTRAST

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 56h | 52h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | 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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

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 |

## 2.89. Query BRIGHTNESS

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 56h | 42h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | 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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

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 |

## 2.90. Query GAMMA

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 47h | 42h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | G | A | |

Response (Callback)

In the period when the command can be accepted

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

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

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 |
| | 29 | | | 30 | | | 31 | | |
| Hexadecimal | 30h | 32h | 39h | 30h | 33h | 30h | 30h | 33h | 31h |
| Character | 0 | 2 | 9 | 0 | 3 | 0 | 0 | 3 | 1 |

## 2.91. Query SHARPNESS

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 56h | 53h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | 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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

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 |
| | 13 | | | 14 | | | 15 | | |
| Hexadecimal | 30h | 31h | 33h | 30h | 31h | 34h | 30h | 31h | 35h |
| Character | 0 | 1 | 3 | 0 | 1 | 4 | 0 | 1 | 5 |

## 2.92. Query NOISE REDUCTION

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 4Eh | 53h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | N | S | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | *1 | 03h |
|---|---|---|---|
| Character | | *2 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | × | ○ | ○ |

Parameters (*1,*2)

| | OFF | ON |
|---|---|---|
| Hexadecimal | 30h | 31h |
| Character | 0 | 1 |

## 2.93. Query PROGRESSIVE

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 50h | 44h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | P | D | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | *1 | 03h |
|---|---|---|---|
| Character | | *2 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | × | ○ | ○ |

Parameters (*1,*2)

| | FILM | OFF | ON |
|---|---|---|---|
| Hexadecimal | 30h | 31h | 32h |
| Character | 0 | 1 | 2 |

## 2.94. Query TV - SYSTEM

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 53h | 47h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | S | G | |

Response (Callback)

In the period when the command can be accepted

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

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | ○ | ○ | ○ |

Parameters (*1,*2,*3,*4,*5,*6)

| | AUTO | | | NTSC | | | NTSC4.43 | | |
|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 41h | 54h | 31h | 4Eh | 54h | 53h | 4Eh | 34h | 34h |
| Character | A | T | 1 | N | T | S | N | 4 | 4 |
| | PAL | | | PAL-M | | | PAL-N | | |
| Hexadecimal | 50h | 41h | 4Ch | 50h | 41h | 4Dh | 50h | 41h | 4Eh |
| Character | P | A | L | P | A | M | P | A | N |
| | SECAM | | | | | | | | |
| Hexadecimal | 53h | 45h | 43h | | | | | | |
| Character | S | E | C | | | | | | |

## 2.95. Query SHIFT HORIZONTAL

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 54h | 48h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | T | H | |

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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | × | ○ | ○ |

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

| | 0 | | | | 1 | | | | 2 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 31h | 30h | 30h | 30h | 32h |
| Character | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| | 4093 | | | | 4094 | | | | 4095 | | | |
| Hexadecimal | 34h | 30h | 39h | 33h | 34h | 30h | 39h | 34h | 34h | 30h | 39h | 35h |
| Character | 4 | 0 | 9 | 3 | 4 | 0 | 9 | 4 | 4 | 0 | 9 | 5 |

Note:
If input signal is not RGB (PC analog), ER401 is returned.

## 2.96. Query SHIFT VERTICAL

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 54h | 56h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | T | V | |

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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | × | ○ | ○ |

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

| | 1 | | | | 2 | | | | 3 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 31h | 30h | 30h | 30h | 32h | 30h | 30h | 30h | 33h |
| Character | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 |
| | 4092 | | | | 4093 | | | | 4094 | | | |
| Hexadecimal | 34h | 30h | 39h | 32h | 34h | 30h | 39h | 33h | 34h | 30h | 39h | 34h |
| Character | 4 | 0 | 9 | 2 | 4 | 0 | 9 | 3 | 4 | 0 | 9 | 4 |

Note:
If input signal is not RGB (PC analog), ER401 is returned.

## 2.97. Query ASPECT

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 53h | 45h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | S | E | |

Response (Callback)

In the period when the command can be accepted

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

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | × | ○ | ○ |

Parameters (*1,*2,*3,*4)

Input terminal: VIDEO

| | NORMAL | WIDE | FULL | ZOOM | | CUSTOM | |
|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 32h | 36h | 34h | 30h | 35h | 30h |
| Character | 0 | 1 | 6 | 4 | 0 | 5 | 0 |

Input terminal: Computer

| | NORMAL | WIDE | REAL | FULL | ZOOM | |
|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 32h | 35h | 36h | 34h | 30h |
| Character | 0 | 2 | 5 | 6 | 4 | 0 |

| | CUSTOM | |
|---|---|---|
| Hexadecimal | 35h | 30h |
| Character | 5 | 0 |

## 2.98. Query CLOCK PHASE

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 43h | 50h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | 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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | × | ○ | ○ |

| VIDEO | S-VIDEO | RGB1 | RGB2 | $YP_BP_R1$ | $YP_BP_R2$ | DVI | HDMI | SDI |
|---|---|---|---|---|---|---|---|---|
| × | × | ○ | ○ | ○ | ○ | × | × | × |

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 |
| | 29 | | | 30 | | | 31 | | |
| Hexadecimal | 30h | 32h | 39h | 30h | 33h | 30h | 30h | 33h | 31h |
| Character | 0 | 3 | 9 | 0 | 3 | 0 | 0 | 3 | 1 |

Note:

If input signal is not RGB (PC analog), ER401 is returned.

## 2.99. Query INPUT RESOLUTION – TOTAL DOTS

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 54h | 44h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | T | D | |

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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | × | ○ | ○ |

| VIDEO | S-VIDEO | RGB1 | RGB2 | $YP_BP_R1$ | $YP_BP_R2$ | DVI | HDMI | SDI |
|---|---|---|---|---|---|---|---|---|
| × | × | ○ | ○ | × | × | × | × | × |

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

| | 330 | | | | 331 | | | |
|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 33h | 33h | 30h | 30h | 33h | 33h | 31h |
| Character | 0 | 3 | 3 | 0 | 0 | 3 | 3 | 1 |
| | 4095 | | | | 4096 | | | |
| Hexadecimal | 34h | 30h | 39h | 35h | 34h | 30h | 39h | 36h |
| Character | 4 | 0 | 9 | 5 | 4 | 0 | 9 | 6 |

Note:

If input signal is not RGB (PC analog), ER401 is returned.

## 2.100. Query INPUT RESOLUTION – DISPLAY DOTS

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 44h | 44h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | D | D | |

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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | × | ○ | ○ |

| VIDEO | S-VIDEO | RGB1 | RGB2 | $YP_BP_R1$ | $YP_BP_R2$ | DVI | HDMI | SDI |
|---|---|---|---|---|---|---|---|---|
| × | × | ○ | ○ | × | × | × | × | × |

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

| | 256 | | | | 257 | | | |
|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 32h | 35h | 36h | 30h | 32h | 35h | 37h |
| Character | 0 | 2 | 5 | 6 | 0 | 2 | 5 | 7 |
| | 2065 | | | | 2066 | | | |
| Hexadecimal | 32h | 30h | 36h | 35h | 32h | 30h | 36h | 36h |
| Character | 2 | 0 | 6 | 5 | 2 | 0 | 6 | 6 |

Note:

If input signal is not RGB (PC analog), ER401 is returned.

## 2.101. Query INPUT RESOLUTION - DISPLAY LINES

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 44h | 4Ch | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | D | 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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | × | ○ | ○ |

| VIDEO | S-VIDEO | RGB1 | RGB2 | $YP_BP_R1$ | $YP_BP_R2$ | DVI | HDMI | SDI |
|---|---|---|---|---|---|---|---|---|
| × | × | ○ | ○ | × | × | × | × | × |

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

| | 100 | | | | 101 | | | |
|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 31h | 30h | 30h | 30h | 31h | 30h | 31h |
| Character | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| | 1199 | | | | 1200 | | | |
| Hexadecimal | 31h | 31h | 39h | 39h | 31h | 32h | 30h | 30h |
| Character | 1 | 1 | 9 | 9 | 1 | 2 | 0 | 0 |

Note:

If input signal is not RGB (PC analog), ER401 is returned.

## 2.102. Query FRAME DELAY

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 56h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | V | X | : |
| Hexadecimal | 46h | 44h | 59h | 49h | 30h | 03h | | | | |
| Character | F | D | Y | I | 0 | | | | | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 46h | 44h | 59h | 49h | 30h | 3Dh | 2Bh |
|---|---|---|---|---|---|---|---|---|
| Character | | F | D | Y | I | 0 | = | + |
| Hexadecimal | *1 | *3 | *5 | *7 | *9 | 03h | | |
| Character | *2 | *4 | *6 | *8 | *10 | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10)

| | OFF | | | | | LOW | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 31h |
| Character | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | MID | | | | | HIGH | | | | |
| Hexadecimal | 30h | 30h | 30h | 30h | 32h | 30h | 30h | 30h | 30h | 33h |
| Character | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |

## 2.103. Query EDGE BLENDING

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 56h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | V | X | : |
| Hexadecimal | 45h | 44h | 42h | 49h | 30h | 03h | | | | |
| Character | E | D | B | I | 0 | | | | | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 45h | 44h | 42h | 49h | 30h | 3Dh | 2Bh |
|---|---|---|---|---|---|---|---|---|
| Character | | E | D | B | I | 0 | = | + |
| Hexadecimal | *1 | *3 | *5 | *7 | *9 | 03h | | |
| Character | *2 | *4 | *6 | *8 | *10 | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | ○ | ○ | ○ |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10)

| | OFF | | | | | ON | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 31h |
| Character | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

## 2.104. Query COLOR MATCHING

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 56h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | V | X | : |
| Hexadecimal | 43h | 4D4h | 41h | 49h | 30h | 03h | | | | |
| Character | C | M | A | I | 0 | | | | | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 43h | 4D4h | 41h | 49h | 30h | 3Dh | 2Bh |
|---|---|---|---|---|---|---|---|---|
| Character | | C | M | A | I | 0 | = | + |
| Hexadecimal | *1 | *3 | *5 | *7 | *9 | 03h | | |
| Character | *2 | *4 | *6 | *8 | *10 | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10)

| | OFF | | | | | MEASURED | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 34h |
| Character | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |

## 2.105. Query CLAMP POSITION

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 4Ch | 54h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | L | T | |

Response (Callback)

In the period when the command can be accepted

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

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | × | ○ | ○ |

| VIDEO | S-VIDEO | RGB1 | RGB2 | $YP_BP_R1$ | $YP_BP_R2$ | DVI | HDMI | SDI |
|---|---|---|---|---|---|---|---|---|
| × | × | ○ | ○ | ○ | ○ | × | × | × |

Parameter (*1,*2,*3,*4,*5,*6)

| | 0 | | | | 1 | | | |
|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 31h |
| Character | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 4094 | | | | 4095 | | | |
| Hexadecimal | 34h | 30h | 39h | 34h | 34h | 30h | 39h | 35h |
| Character | 4 | 0 | 9 | 4 | 4 | 0 | 9 | 5 |

Note:

If input signal is not RGB (PC analog), ER401 is returned.

## 2.106. Query GEOMETRY: KEYSTONE - VERTICAL KEYSTONE

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 56h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | V | X | : |
| Hexadecimal | 47h | 4Dh | 4Bh | 49h | 31h | 03h | | | | |
| Character | G | M | K | I | 1 | | | | | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 47h | 4Dh | 4Bh | 49h | 31h | 3Dh | *1 | *3 | *5 |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | G | M | K | I | 1 | = | *2 | *4 | *6 |
| Hexadecimal | *7 | *9 | *11 | 03h | | | | | | |
| Character | *8 | *10 | *12 | | | | | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10,*11,*12)

| | -80 | | | | | | -79 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 2Dh | 30h | 30h | 30h | 38h | 30h | 2Dh | 30h | 30h | 30h | 37h | 39h |
| Character | — | 0 | 0 | 0 | 8 | 0 | — | 0 | 0 | 0 | 7 | 9 |
| | 79 | | | | | | 80 | | | | | |
| Hexadecimal | 2Bh | 30h | 30h | 30h | 37h | 39h | 2Bh | 30h | 30h | 30h | 38h | 30h |
| Character | + | 0 | 0 | 0 | 7 | 9 | + | 0 | 0 | 0 | 8 | 0 |

## 2.107. Query GEOMOTRY: KEYSTONE - HORIZONTAL KEYSTONE

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 56h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | V | X | : |
| Hexadecimal | 47h | 4Dh | 4Bh | 49h | 35h | 03h | | | | |
| Character | G | M | K | I | 5 | | | | | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 47h | 4Dh | 4Bh | 49h | 35h | 3Dh | *1 | *3 | *5 |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | G | M | K | I | 5 | = | *2 | *4 | *6 |
| Hexadecimal | *7 | *9 | *11 | 03h | | | | | | |
| Character | *8 | *10 | *12 | | | | | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10,*11,*12)

| | -80 | | | | | | -79 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 2Dh | 30h | 30h | 30h | 38h | 30h | 2Dh | 30h | 30h | 30h | 37h | 39h |
| Character | — | 0 | 0 | 0 | 8 | 0 | — | 0 | 0 | 0 | 7 | 9 |
| | 79 | | | | | | 80 | | | | | |
| Hexadecimal | 2Bh | 30h | 30h | 30h | 37h | 39h | 2Bh | 30h | 30h | 30h | 38h | 30h |
| Character | + | 0 | 0 | 0 | 7 | 9 | + | 0 | 0 | 0 | 8 | 0 |

## 2.108. Query DISPLAY LANGUAGE

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 4Ch | 47h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | 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 | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

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 | 41h | 4Ah | 50h | 4Eh |
| Character | E | S | P | I | T | A | 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 |
| | Portuguse | | | | | | | | |
| Hexadecimal | 50h | 4Fh | 52h | | | | | | |
| Character | P | O | R | | | | | | |

## 2.109. Query SCREEN POSITION Vertical

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 56h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | V | X | : |
| Hexadecimal | 56h | 53h | 50h | 49h | 30h | 03h | | | | |
| Character | V | S | P | I | 0 | | | | | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 56h | 53h | 50h | 49h | 30h | 3Dh | *1 | *3 | *5 |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | V | S | P | I | 0 | = | *2 | *4 | *6 |
| Hexadecimal | *7 | *9 | *11 | 03h | | | | | | |
| Character | *8 | *10 | *12 | | | | | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | × | ○ | ○ |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10,*11,*12)

| | -15 | | | | | | -14 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 2Dh | 30h | 30h | 30h | 31h | 35h | 2Dh | 30h | 30h | 30h | 31h | 34h |
| Character | — | 0 | 0 | 0 | 1 | 5 | — | 0 | 0 | 0 | 1 | 4 |
| | 14 | | | | | | 15 | | | | | |
| Hexadecimal | 2Bh | 30h | 30h | 30h | 31h | 34h | 2Bh | 30h | 30h | 30h | 31h | 35h |
| Character | + | 0 | 0 | 0 | 1 | 4 | + | 0 | 0 | 0 | 1 | 5 |

Note:

If screen mode is not CUSTOM, ER401 is returned.

## 2.110. Query SCREEN POSITION Horizontal

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 56h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | V | X | : |
| Hexadecimal | 48h | 53h | 50h | 49h | 30h | 03h | | | | |
| Character | H | S | P | I | 0 | | | | | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 48h | 53h | 50h | 49h | 30h | 3Dh | *1 | *3 | *5 |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | H | S | P | I | 0 | = | *2 | *4 | *6 |
| Hexadecimal | *7 | *9 | *11 | 03h | | | | | | |
| Character | *8 | *10 | *12 | | | | | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | ○ | ○ | ○ |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10,*11,*12)

| | -15 | | | | | | -14 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 2Dh | 30h | 30h | 30h | 31h | 35h | 2Dh | 30h | 30h | 30h | 31h | 34h |
| Character | — | 0 | 0 | 0 | 1 | 5 | — | 0 | 0 | 0 | 1 | 4 |
| | 14 | | | | | | 15 | | | | | |
| Hexadecimal | 2Bh | 30h | 30h | 30h | 31h | 34h | 2Bh | 30h | 30h | 30h | 31h | 35h |
| Character | + | 0 | 0 | 0 | 1 | 4 | + | 0 | 0 | 0 | 1 | 5 |

Note:

If screen mode is not CUSTOM, ER401 is returned.

## 2.111. Query Temperature

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 54h | 4Dh | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | T | M | : |
| Hexadecimal | *1 | 03h | | | | | | | | |
| Character | *2 | | | | | | | | | |

Parameters (*1,*2)

| | INTAKE AIR TEMP. | OPTICS MODULE TEMP. |
|---|---|---|
| Hexadecimal | 30h | 32h |
| Character | 0 | 2 |

Response (Callback)

For -20 degrees Celsius

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

For 120 degrees Celsius

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

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

## 2.112. Query Model (Series) Name

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 49h | 44h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | I | D | |

Response (Callback)

In the period when the command can be accepted

PT-EX16K

| Hexadecimal | 02h | 45h | 58h | 31h | 36h | 4Bh | 03h |
|---|---|---|---|---|---|---|---|
| Character | | E | X | 1 | 6 | K | |

PT-EX16KU

| Hexadecimal | 02h | 45h | 58h | 31h | 36h | 4Bh | 55h | 03h |
|---|---|---|---|---|---|---|---|---|
| Character | | E | X | 1 | 6 | K | U | |

PT-EX16KE/PT-EX16KEJ

| Hexadecimal | 02h | 45h | 58h | 31h | 36h | 4Bh | 45h | 03h |
|---|---|---|---|---|---|---|---|---|
| Character | | E | X | 1 | 6 | K | E | |

PT-SLX16K

| Hexadecimal | 02h | 53h | 4Ch | 58h | 31h | 36h | 4Bh | 03h |
|---|---|---|---|---|---|---|---|---|
| Character | | S | L | X | 1 | 6 | K | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

## 2.113. Query System Setting

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 52h | 46h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | R | F | |

Response (Callback)

RGB

| Hexadecimal | 02h | 30h | 03h |
|---|---|---|---|
| Character | | 0 | |

$YP_BP_R$/$YC_BC_R$

| Hexadecimal | 02h | 31h | 03h |
|---|---|---|---|
| Character | | 1 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

Note:

This command is only effective when input signal is RGB or Y,Yb/Cb, Pr/Cr. In other cases, ER401 is returned.

## 2.114. Query DVI EDID

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 45h | 44h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | E | D | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | *1 | 03h |
|---|---|---|---|
| Character | | *2 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

Parameters (*1,*2)

| | EDID1(AV HDCP) | EDID2(PC digital) |
|---|---|---|
| Hexadecimal | 31h | 32h |
| Character | 1 | 2 |

Note:

This command is only effective when input signal at DVI is RGB(AV HDCP) or RGB(PC digital).

## 2.115. Query HDMI SIGNAL LEVEL

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 56h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | V | X | : |
| Hexadecimal | 48h | 53h | 4Ch | 49h | 30h | 03h | | | | |
| Character | H | S | L | I | 0 | | | | | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 48h | 53h | 4Ch | 49h | 30h | 3Dh | 2Bh |
|---|---|---|---|---|---|---|---|---|
| Character | | H | S | L | I | 0 | = | + |
| Hexadecimal | *1 | *3 | *5 | *7 | *9 | 03h | | |
| Character | *2 | *4 | *6 | *8 | *10 | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10)

| | EXPAND | | | | | NORMAL | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 30h | 31h |
| Character | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

## 2.116. Query POWER MANAGAMENT

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 41h | 46h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | A | F | |

Response (Callback)

In the period when the command can be accepted

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

Acceptabilit

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

Parameters (*1,*2,*3,*4)

| | OFF | | 1 Min. | | 2 Min. | |
|---|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 31h | 30h | 32h |
| Character | 0 | 0 | 0 | 1 | 0 | 2 |
| | 28 Min. | | 29 Min. | | 30 Min. | |
| Hexadecimal | 32h | 38h | 32h | 39h | 33h | 30h |
| Character | 2 | 8 | 2 | 9 | 3 | 0 |

## 2.117. Query STRATUP LOGO

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 4Ch | 4Fh | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | L | O | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | *1 | 03h |
|---|---|---|---|
| Character | | *2 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

Parameters (*1,*2)

| | OFF | USER | DEFAULT |
|---|---|---|---|
| Hexadecimal | 30h | 31h | 32h |
| Character | 0 | 1 | 2 |

## 2.118. Query BACKGROUND

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 42h | 43h | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | B | C | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | *1 | 03h |
|---|---|---|---|
| Character | | *2 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | ○ | ○ | ○ |

Parameters (*1,*2)

| | BLUE | BLACK | USER |
|---|---|---|---|
| Hexadecimal | 30h | 31h | 32h |
| Character | 0 | 1 | 2 |

## 2.119. Query SERIAL NUMBER

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 53h | 4Eh | 03h |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | S | N | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | *1 | *3 | ～ | *15 | *17 | 03h |
|---|---|---|---|---|---|---|---|
| Character | | *2 | *4 | | *16 | *18 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

Parameters (*1,*2,*3,*4 ～*15,*16,*17,*18)

The set serial number is returned.

Example: Serial number unsetting

| Hexadecimal | 02h | 03h |
|---|---|---|
| Character | | |

Example: When SW0101234 is set to the serial number

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

## 2.120. Query FILTER INFORMATION

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 45h | 49h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | F | I | : |
| Hexadecimal | *1 | 03h | | | | | | | | |
| Character | *2 | | | | | | | | | |

Parameters (*1,*2)

| | Filter kind | Remaining percentage |
|---|---|---|
| Hexadecimal | 32h | 36h |
| Character | 2 | 6 |

Response (Callback)

Query Filter kind (QFI: 2)

| Hexadecimal | 02h | *3 | 03h |
|---|---|---|---|
| Character | | *4 | |

Query Remaining percentage (QFI: 6)

| Hexadecimal | 02h | *5 | *7 | *9 | 03h |
|---|---|---|---|---|---|
| Character | | *6 | *8 | *10 | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

Parameters (*3,*4)

Query Runtime (QFI: 2)

| | Normal | Smoke |
|---|---|---|
| Hexadecimal | 30h | 31h |
| Character | 0 | 1 |

Parameters (*5,*6,*7,*8,*9,*10)

Query Remaining percentage (QFI: 6)

| | 0 | | | 1 | | | 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| Hexadecimal | 20h | 20h | 30h | 20h | 20h | 31h | 20h | 02h | 32h |
| Character | | | 0 | | | 1 | | | 2 |
| | 98 | | | 99 | | | 100 | | |
| Hexadecimal | 20h | 39h | 38h | 20h | 39h | 39h | 31h | 30h | 30h |
| Character | | 9 | 8 | | 9 | 9 | 1 | 0 | 0 |

## 2.121. Query STANDBY MODE

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 56h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | V | X | : |
| Hexadecimal | 53h | 54h | 4Dh | 49h | 30h | 03h | | | | |
| Character | S | T | M | I | 0 | | | | | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 53h | 54h | 4Dh | 49h | 30h | 3Dh | 2Bh | *1 | *3 |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | S | T | M | I | 0 | = | + | *2 | *4 |
| Hexadecimal | *5 | *7 | *9 | 03h | | | | | | |
| Character | *6 | *8 | *10 | | | | | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10)

| | NORMAL | | | | |
|---|---|---|---|---|---|
| Hexadecimal | 30h | 30h | 30h | 30h | 30h |
| Character | 0 | 0 | 0 | 0 | 0 |

## 2.122. Query MAIN VERSION

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 56h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | V | X | : |
| Hexadecimal | 53h | 56h | 52h | 53h | 30h | 03h | | | | |
| Character | S | V | R | S | 0 | | | | | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 53h | 54h | 4Dh | 49h | 30h | 3Dh | *1 | *3 | *5 |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | S | T | M | I | 0 | = | *2 | *4 | *6 |
| Hexadecimal | *7 | *9 | *11 | *13 | *15 | 03h | | | | |
| Character | *8 | *10 | *12 | *14 | *16 | | | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10,*11,*12. *13, *14, *15, *16)

Example: When the main CPU software version is 1.00

| Hexadecimal | 31h | 2Eh | 30h | 30h |
|---|---|---|---|---|
| Character | 1 | . | 0 | 0 |

Note:

- Software version responses in variable length.

## 2.123. Query NETWORK VERSION

| Hexadecimal | 02h | 41h | 44h | 5Ah | 5Ah | 3Bh | 51h | 56h | 58h | 3Ah |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | A | D | Z | Z | ; | Q | V | X | : |
| Hexadecimal | 53h | 56h | 52h | 53h | 31h | 03h | | | | |
| Character | S | V | R | S | 1 | | | | | |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | 53h | 54h | 4Dh | 49h | 31h | 3Dh | *1 | *3 | *5 |
|---|---|---|---|---|---|---|---|---|---|---|
| Character | | S | T | M | I | 1 | = | *2 | *4 | *6 |
| Hexadecimal | *7 | *9 | *11 | *13 | *15 | 03h | | | | |
| Character | *8 | *10 | *12 | *14 | *16 | | | | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

Parameters (*1,*2,*3,*4,*5,*6,*7,*8,*9,*10,*11,*12)

Example: When the network CPU software is 1.00

| Hexadecimal | 31h | 2Eh | 30h | 30h |
|---|---|---|---|---|
| Character | 1 | . | 0 | 0 |

Note:

- Software version responses in variable length.

## 3. Extended Control Command

| Start (STX) | ID | Command | Parameters | END (ETX) |
|---|---|---|---|---|
| 1 byte | 1 byte | 1 byte or 2 byte | Undefined length | 1 byte |

ID of the extended control command

| ID | Hexadecimal (1 byte) | ID | Hexadecimal (1 byte)) | ID | Hexadecimal (1 byte) | ID | Hexadecimal (1 byte) |
|---|---|---|---|---|---|---|---|
| ID ALL | 00 | ID17 | 11 | ID34 | 22 | ID51 | 33 |
| ID1 | 01 | ID18 | 12 | ID35 | 23 | ID52 | 34 |
| ID2 | 02 | ID19 | 13 | ID36 | 24 | ID53 | 35 |
| ID3 | 03 | ID20 | 14 | ID37 | 25 | ID54 | 36 |
| ID4 | 04 | ID21 | 15 | ID38 | 26 | ID55 | 37 |
| ID5 | 05 | ID22 | 16 | ID39 | 27 | ID56 | 38 |
| ID6 | 06 | ID23 | 17 | ID40 | 28 | ID57 | 39 |
| ID7 | 07 | ID24 | 18 | ID41 | 29 | ID58 | 3A |
| ID8 | 08 | ID25 | 19 | ID42 | 2A | ID59 | 3B |
| ID9 | 09 | ID26 | 1A | ID43 | 2B | ID60 | 3C |
| ID10 | 0A | ID27 | 1B | ID44 | 2C | ID61 | 3D |
| ID11 | 0B | ID28 | 1C | ID45 | 2D | ID62 | 3E |
| ID12 | 0C | ID29 | 1D | ID46 | 2E | ID63 | 3F |
| ID13 | 0D | ID30 | 1E | ID47 | 2F | ID64 | 40 |
| ID14 | 0E | ID31 | 1F | ID48 | 30 | | |
| ID15 | 0F | ID32 | 20 | ID49 | 31 | | |
| ID16 | 10 | ID33 | 21 | ID50 | 32 | | |

### 3.1. Lens Control

| Hexadecimal | 02h | *1 | B1h | 7Ch | *2 | *3 | *4 | 03h |
|---|---|---|---|---|---|---|---|---|
| Remarks | STX | ID | Command | | Parameters | | | ETX |

Parameters (*2)

| | LENS SHIFT H | LENS SHIFT V | LENS FOCUS | LENS ZOOM |
|---|---|---|---|---|
| Hexadecimal | 00h | 01h | 02h | 03h |

Parameters (*3)

| | Slowly | Normal | Fast | HOME POSITION* |
|---|---|---|---|---|
| Hexadecimal | 00h | 01h | 02h | 80h |

Parameters (*4)

| | Right / Up/ Forward/ In / Cancel | Left / Down / Backward / Out/ Start |
|---|---|---|
| Hexadecimal | 00h | 01h |

Response (Callback)

| Hexadecimal | 02h | *5 | B3h | 7Ch | *2 | *3 | *4 | 03h |
|---|---|---|---|---|---|---|---|---|
| | STX | ID | Callback | | Parameters | | | ETX |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | × | ○ | × | ○ |

Note:

- HOEM POSITION is available only when parameters (2*) is LENS SHIFT H (00h) or LENS SHIFT V (01h)
- At the SECURITY or STNDBY mode, projector accepts this command but will not operate actually.

## 3.2. SELF CHECK Information

| Hexadecimal | 02h | *1 | FEh | 03h |
|---|---|---|---|---|
| Remarks | STX | ID | Command | ETX |

Response (Callback)

In the period when the command can be accepted

| Hexadecimal | 02h | *5 | FEh | *2 | *3 | *4 | *5 | *6 | *7 | *8 | *9 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | STX | ID | | Parameter1 | | | | Parameter2 | | | |
| Hexadecimal | *10 | *11 | *12 | *13 | *14 | *15 | *16 | *17 | 03h | | |
| | Parameter3 | | | Parameter4 | | | | | ETX | | |

Acceptability

| SECURITY | STNDBY | NO SIGNAL | SHUTTER | FREEZE |
|---|---|---|---|---|
| ○ | ○ | ○ | ○ | ○ |

Parameters 1-4(*2,*3,*4,*5,*6,*7,*8,*9,*10,*11,*12,*13,*14,*15,*16,*17)

| | *2 | | | | | | | | *3 | | | | | | | | *4 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bit | 127 | | | | | | | 120 | 119 | | | | | | | 112 | 111 | | | | | | | 104 |
| | *5 | | | | | | | | *6 | | | | | | | | *7 | | | | | | | |
| Bit | 103 | | | | | | | 96 | 95 | | | | | | | 88 | 87 | | | | | | | 80 |
| | *8 | | | | | | | | *9 | | | | | | | | *10 | | | | | | | |
| Bit | 79 | | | | | | | 72 | 71 | | | | | | | 64 | 63 | | | | | | | 56 |
| | *11 | | | | | | | | *12 | | | | | | | | *13 | | | | | | | |
| Bit | 55 | | | | | | | 48 | 47 | | | | | | | 40 | 39 | | | | | | | 32 |
| | *14 | | | | | | | | *15 | | | | | | | | *16 | | | | | | | |
| Bit | 31 | | | | | | | 24 | 23 | | | | | | | 16 | 15 | | | | | | | 8 |
| | *17 | | | | | | | | | | | | | | | | | | | | | | | |
| Bit | 7 | | | | | | | 0 | | | | | | | | | | | | | | | | |

| Bit | Name | Description | Condition of Clear Bit |
|---|---|---|---|
| bit0 | Temperature warning (Intake) | Temperature around the intake duct exceeds warning temperature. | - Becomes lower than the warning release temperature during power-on.<br>- MAIN Power On |
| bit1 | Temperature warning (Optical) | Temperature around the optical module exceeds warning temperature. | - Becomes lower than the warning release temperature during power-on.<br>- MAIN Power On |
| bit4 | Temperature error (Intake) | Temperature around the intake duct exceeds abnormal temperature. | Becomes lower than the abnormal release temperature |
| bit5 | Temperature error (Optical) | Temperature around theoptical module exceeds abnormal temperature. | Becomes lower than the abnormal release temperature |
| bit12 | LAMP1 time error | The LAMP1 ON time exceeds specified cumulative usage time | Replaces Lamp with new one |
| bit13 | LAMP2 time error | The LAMP2 ON time exceeds specified cumulative usage time | Replaces Lamp with new one |
| bit14 | LAMP3 time error | The LAMP3 ON time exceeds specified cumulative usage time | Replaces Lamp with new one |
| bit15 | LAMP4 time error | The LAMP4 ON time exceeds specified cumulative usage time | Replaces Lamp with new one |
| bit16 | LAMP1 failure | It fails in the turning ON the LAMP1. | LAMP1 On succes |
| bit17 | LAMP2 failure | It fails in the turning ON the LAMP2 | LAMP2 On succes |
| bit18 | LAMP3 failure | It fails in the turning ON the LAMP3 | LAMP3 On succes |
| bit19 | LAMP4 failure | It fails in the turning ON the LAMP4 | LAMP4 On succes |
| bit20 | LAMP1 turning ON failure | It fails to turn ON the LAMP1. | LAMP1 On succes |
| bit21 | LAMP2 turning ON failure | It fails to turn ON the LAMP2. | LAMP2 On succes |
| bit22 | LAMP3 turning ON failure | It fails to turn ON the LAMP3. | LAMP3 On succes |
| bit23 | LAMP4 turning ON failure | It fails to turn ON the LAMP4. | LAMP4 On succes |
| bit36 | Filter error | The wind sensor detects abnormal air flow.. | Resetting the Filter counter |

| Bit | Name | Description | Condition of Clear Bit |
|---|---|---|---|
| bit48 | PFC12 COOLING FAN error | It detets the FAN LOCK signal of the coolimg fans for PFC1 and 2. | MAIN Power On |
| bit49 | PFC34 COOLING FAN error | It detets the FAN LOCK signal of the coolimg fans for PFC3 and 4. | MAIN Power On |
| bit50 | LAMP1 EXHAUST FAN error | It detets the FAN LOCK signal of the exhuast fans for LAMP1. | MAIN Power On |
| bit51 | LAMP2 EXHAUST FAN error | It detets the FAN LOCK signal of the exhuast fans for LAMP2. | MAIN Power On |
| bit52 | LAMP3 EXHAUST FAN error | It detets the FAN LOCK signal of the exhuast fans for LAMP3. | MAIN Power On |
| bit53 | LAMP4 EXHAUST FAN error | It detets the FAN LOCK signal of the exhuast fans for LAMP4. | MAIN Power On |
| bit54 | MRROR EXHAUST FAN error | It detets the FAN LOCK signal of the exhuast fans for Mirror. | MAIN Power On |
| bit55 | LAMP1 INTAKE FAN error | It detets the FAN LOCK signal of the intake fans for LAMP1. | MAIN Power On |
| bit56 | LAMP2 INTAKE FAN error | It detets the FAN LOCK signal of the intake fans for LAMP1. | MAIN Power On |
| bit57 | LAMP3 INTAKE FAN error | It detets the FAN LOCK signal of the intake fans for LAMP1. | MAIN Power On |
| bit58 | LAMP4 INTAKE FAN error | It detets the FAN LOCK signal of the intake fans for LAMP1. | MAIN Power On |
| bit59 | PANEL B INTAKE FAN1 error | It detets the FAN LOCK signal of the intake fan1 for PANEL B. | MAIN Power On |
| bit60 | PANEL B INTAKE FAN2 error | It detets the FAN LOCK signal of the intake fan2 for PANEL B. | MAIN Power On |
| bit61 | PANEL R INTAKE FAN error | It detets the FAN LOCK signal of the intake fan for PANEL R. | MAIN Power On |
| bit62 | PANEL G INTAKE FAN1 error | It detets the FAN LOCK signal of the intake fan1 for PANEL G. | MAIN Power On |
| bit63 | PANEL G INTAKE FAN2 error | It detets the FAN LOCK signal of the intake fan2for PANEL G. | MAIN Power On |
| bit64 | PBS INTAKE FAN error | It detects the FAN LOCK signal of the Intake fan fro PBS | MAIN Power On |
| bit66 | Shutter error | Shutter cannot be closed or opened correctoly | MAIN Power On, or when the shutter open operation is done correctly |
| bit80 | FPGA1 Config error | It detects FPGA config error status | MAIN Power On |
| bit87 | Ballast1 Communication error | It detects the communication error for BALLAST1 | LAMP1 On succes |
| bit88 | Ballast2 Communication error | It detects the communication error for BALLAST2 | LAMP2 On succes |
| bit89 | Ballast3 Communication error | It detects the communication error for BALLAST3 | LAMP3 On succes |
| bit90 | Ballast4 Communication error | It detects the communication error for BALLAST4 | LAMP4 On succes |
| bit97 | Network Micon Communication error | It cannot receice the acknowledge from the network unit | MAIN POWER ON |