



HP LD4730 and LD4730G LCD Ultra-slim Bezel Digital Signage Displays

Command Reference Guide

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About This Guide

This guide provides information on command references for the HP LD4730 and LD4730G LCD Ultra-slim Bezel Digital Signage Displays.

 **WARNING!** Text set off in this manner indicates that failure to follow directions could result in bodily harm or loss of life.

 **CAUTION:** Text set off in this manner indicates that failure to follow directions could result in damage to equipment or loss of information.


 **NOTE:** Text set off in this manner provides important supplemental information.

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Command reference

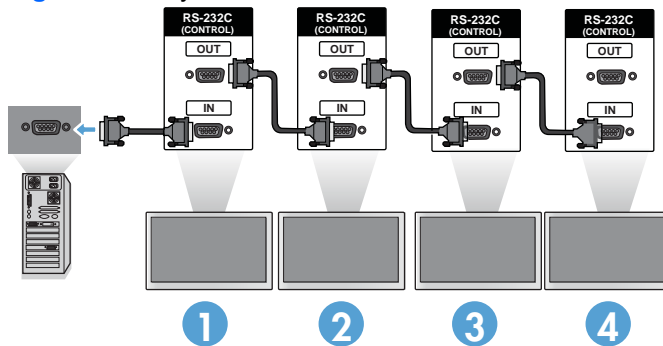
This chapter gives the information needed to send control commands to the display from your own programs. Use the RS-232-C port for transmitting and receiving commands.

Connecting the cable

Use this method if you want to connect several products to a single PC so that all displays can be controlled at once.



Connect the RS-232-C cable as shown in the following illustration. The RS-232-C protocol is used for communication between the media player/computer and the display. You can turn the display on/off, select an input source or adjust the OSD menu from the media player/computer.

Figure 1 Daisy chain



RS-232-C configurations

| 7-Wire configurations (Standard RS-232-C cable) | | | | 3-Wire configurations (Not Standard) | | | |
|--|---|---------|-----|---|---|---------|-----|
| media player/ computer | | Display | | media player/ computer | | Display | |
| RXD | 2 | 3 | TXD | RXD | 2 | 3 | TXD |
| TXD | 3 | 2 | RXD | TXD | 3 | 2 | RXD |
| GND | 5 | 5 | GND | GND | 5 | 5 | GND |
| DTR | 4 | 6 | DSR | DTR | 4 | 6 | DSR |
| DSR | 6 | 4 | DTR | DSR | 6 | 4 | DTR |

| 7-Wire configurations (Standard RS-232-C cable) | | | | 3-Wire configurations (Not Standard) | | | |
|--|---|---|---|---|-----|---------------------|-------|
| RTS | 7 |  | 8 | CTS | RTS | 7 | 7 CTS |
| CTS | 8 |  | 7 | RTS | CTS | 8 | 8 RTS |
| D-Sub 9 (Female) | | D-Sub 9 (Female) | | D-Sub 9 (Female) | | D-Sub 9 (Female) | |

Communication parameter

- Baud Rate—9600 baud rate (UART)
- Data Length—8 bit
- Parity Bit—None
- Stop Bit—1 bit
- Flow Control—None
- Communication Code—ASCII code
- Use a crossed (reverse) cable

Command reference list

The table below shows the commands supported by the LD4730 and LD4730G.

| | COMMAND1 | COMMAND2 | DATA1 | DATA2 | DATA3 |
|--------------------------|----------|----------|----------|-------|-------|
| 01. Power | k | a | 00H–01H | | |
| 02. Input Select | k | b | 07H–0BH | | |
| 03. Aspect Ratio | k | c | 01H–1FH | | |
| 04. Local Dimming | j | a | 00H–01H | | |
| 05. Backlight | m | g | 00H–064H | | |
| 06. Volume Control | k | f | 00H–64H | | |
| 07. Contrast | k | g | 00H–64H | | |
| 08. Brightness | k | h | 00H–64H | | |
| 09. Ambient Light Sensor | j | b | 00H–02H | | |
| 10. Display Name | v | a | | | |
| 11. Sharpness | k | k | 00H–0AH | | |
| 12. OSD Select | k | l | 00H–01H | | |
| 13. Remote Lock/Key Lock | k | m | 00H–01H | | |
| 14. Balance | k | t | 00H–64H | | |

| | COMMAND1 | COMMAND2 | DATA1 | DATA2 | DATA3 |
|-----------------------------------|----------|----------|-------------------------------|---------|---------|
| 15. Color Temperature | k | u | 00H–03H | | |
| 16. Abnormal State | k | z | FFH | | |
| 17. ISM Method | j | p | 01H–08H | | |
| 18. Auto Configuration | j | u | 01H | | |
| 19. Key | m | c | Key Code | | |
| 20. Subnet mask (NSM) | v | l | | | |
| 21. Tile H Position | d | e | 1–5 | | |
| 22. Tile V Position | d | f | 1–5 | | |
| 23. Tile H Monitors | d | g | 1–5 | | |
| 24. Tile V Monitors | d | h | 1–5 | | |
| 25. Display Location | v | b | | | |
| 26. Natural Mode (In Tile Mode) | d | j | 00H–01H | | |
| 27. Picture Mode (PSM) | d | x | 00H–05H | | |
| 28. Sound Mode | d | y | 01H–02H | | |
| 29. Player Name | v | d | | | |
| 30. Operating Time | d | l | FFH | | |
| 31. Thermal Value | d | n | FFH | | |
| 32. LED Fault Check | d | p | FFH | | |
| 33. DHCP (VOE) | v | e | 00H–01H | | |
| 34. Speaker | d | v | 00H–01H | | |
| 35. Time | f | a | | | |
| 36. On Timer (On/Off Timer) Time | f | d | F1H–F4H E0H–E4H 01H–80H | 00H–17H | 00H–3BH |
| 37. Off Timer (On/Off Timer) Time | f | e | F1H–F4H E0H–E4H 01H–80H | 00H–17H | 00H–3BH |
| 38. Scheduling Input Select | f | u | F1H–F4H | 07H–0BH | |
| 39. IP Address (VOE) | v | f | | | |
| 40. Auto Detection | f | g | 00H–01H | | |
| 41. Power On Delay | f | h | 00H–01H | | |
| 42. Language | f | i | 00H–09H | | |
| 43. DPM Select | f | j | 00H–02H | | |
| 44. Reset | f | k | 00H–02H | | |

| | COMMAND1 | COMMAND2 | DATA1 | DATA2 | DATA3 |
|----------------------------|----------|----------|---------|-------|-------|
| 45. Energy Saving | f | l | 00H-03H | | |
| 46. Subnet mask (VOE) | v | g | | | |
| 47. Serial No. | f | y | FFH | | |
| 48. S/W Verison | f | z | FFH | | |
| 49. IP Address (NSM) | v | k | | | |
| 50. Mac Address (VOE) | v | h | | | |
| 51. Check VOE availability | v | l | FFH | | |
| 52. Mac Address (NSM) | v | j | | | |
| 53. Product Name | f | v | FFH | | |

Transmission/Receiving Protocol

Transmission

```
[Command1][Command2][Set ID][Data][Cr]
```

*[Command 1] First command (k, j, m, d, f, x, v)

*[Command 2] Second command (a to z)

*[Set ID] Set up the Set ID number of product. range: 01H to 63H. by setting '0', server can control all products.

When operating with more than 2 sets using set ID as '0' at the same time, do not check the ack message. Because all sets will send the ack message, it is not possible to check all of the ack messages.

*[Data] To transmit command data.

Transmit 'FF' data to read status of command.

*[Cr] Carriage Return

ASCII code '0 x 0 D'

*[] ASCII code Space (0 x 20)

OK Acknowledgement

```
[Command2][Set ID][OK][Data][x]
```

*The Product transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is in data read mode, it indicates present status data. If the data is in data write mode, it returns the data of the media player/computer.

Error Acknowledgement

```
[Command2][Set ID][NG][Data][x]
```

If there is an error, it returns NG

01. Power (Command: k a)

To control Power On/Off of the Set.

Transmission

```
[k][a][Set ID][Data][Cr]
```

| | |
|--------|--------------|
| [Data] | 0: Power Off |
| | 1: Power On |

Acknowledgement

```
[a][Set ID][OK][Data][x]
```

To show the status of Power On/Off.

Transmission

```
[k][a][Set ID][FF][Cr]
```

Acknowledgement

```
[a][Set ID][OK][Data][x]
```

| | |
|--------|--------------|
| [Data] | 0: Power Off |
| | 1: Power On |

02. Input Select (Command: k b) (Main Picture Input)

To select input source for the Set.

Transmission

```
[k][b][Set ID][Data][Cr]
```

| | |
|--------|-----------------------|
| [Data] | 07H: RGB (PC) |
| | 09H: Ethernet |
| | 0BH: DisplayPort (PC) |

Acknowledgement

```
[b][Set ID][OK][Data][x]
```

03. Aspect Ratio (Command: k c) (Main picture format)

To adjust the screen format.

Transmission

```
[k][c][Set ID][Data][Cr]
```

| | |
|--------|------------------|
| [Data] | 1: 4:3 |
| | 2: 16:9 |
| | 4: Zoom |
| | 6: Original |
| | 7: 14:9 |
| | 9: 1:1 |
| | 10H: Cinema Zoom |

Acknowledgement

```
[c][Set ID][OK][Data][x]
```

04. Local Dimming (Command: j a)

To turn local dimming on/off.

Transmission

[i][a][Set ID][Data][Cr]

[Data] 0: Local dimming off

 1: Local dimming on

Acknowledgement

[a][Set ID][OK][Data][x]

05. Backlight (Command: m g)

To control the brightness of the backlight.

Transmission

[m][g][Set ID][Data][Cr]

[Data] Min: 00H to Max: 64H

Acknowledgement

[g][Set ID][OK][Data][x]

06. Volume Control (Command: k f)

To adjust Volume.

Transmission

[k][f][Set ID][Data][Cr]

[Data] Min: 00H to Max: 64H

 (Hexadecimal code)

Acknowledgement

[f][Set ID][OK][Data][x]

07. Contrast (Command: k g)

To adjust screen contrast.

Transmission

```
[k][g][Set ID][Data][Cr]
```

```
[Data]      Min: 00H to Max: 64H
```

Acknowledgement

```
[g][Set ID][OK][Data][x]
```

08. Brightness (Command: k h)

To adjust screen brightness.

Transmission

```
[k][h][Set ID][Data][Cr]
```

```
[Data]      Min: 00H to Max: 64H
```

Acknowledgement

```
[h][Set ID][OK][Data][x]
```

09. Ambient Light Sensor (Command j b)

To set the frequency of adjustment to ambient light.

Transmission

```
[j][b][Set ID][Data][Cr]
```

```
[Data]      00H: OFF  
            01H: LOW  
            02H: HIGH
```

Acknowledgement

[b][Set ID][OK][Data][x]

10. Display Name (Command: v a)

To fill the Display Name field for VOE.

Transmission

[v][a][Set ID][Data][Cr]

[Data] A text string, 32 characters maximum.

Acknowledgement

[a][Set ID][OK][Data][x]

11. Sharpness (Command: k k)

To adjust the screen Sharpness.

Transmission

[k][k][Set ID][Data][Cr]

[Data] Min: 00H to Max: 0AH

Acknowledgement

[k][Set ID][OK][Data][x]

12. OSD Select (Command: k l)

To control OSD on/off to the set.

Transmission

[k][l][Set ID][Data][Cr]

| | |
|--------|------------|
| [Data] | 0: OSD Off |
| | 1: OSD On |

Acknowledgement

[][][Set ID][][OK][Data][x]

13. Remote Lock/Key Lock (Command: k m)

To control Remote Lock on/off to the set.

This function, when controlling RS-232-C, locks the remote control and the local keys.

Transmission

[k][m][][Set ID][][Data][Cr]

| | |
|--------|--------|
| [Data] | 0: Off |
| | 1: On |

Acknowledgement

[m][][Set ID][][OK][Data][x]

14. Balance (Command: k t)

To adjust the sound balance.

Transmission

[k][t][][Set ID][][Data][Cr]

| | |
|--------|----------------------|
| [Data] | Min: 00H to Max: 64H |
| | (Hexadecimal code) |

00H: Step L50

64H: Step R50

Acknowledgement

[v][Set ID][OK][Data][x]

15. Color Temperature (Command: k u)

To adjust the screen color temperature.

Transmission

[k][u][Set ID][Data][Red gain][Green gain][Blue gain][Cr]

[Data] 0: 9300K

1: 8000K

2: 6500K

3: User

When Data is 3, specify R, G, B gains:

[Red gain] 00H — FFH

[Green gain] 00H — FFH

[Blue gain] 00H — FFH

Acknowledgement

[u][Set ID][OK][Data][Red gain][Green gain][Blue gain][x]

16. Abnormal state (Command: k z)

Abnormal State: Used to Read the power off status when Stand-by mode.

Transmission

[k][z][Set ID][Data][Cr]

[Data] FF: Read

Acknowledgement

```
[z][Set ID][OK][Data][x]
```

| | |
|--------|--|
| [Data] | 0: Normal (Power on and signal exist) |
| | 1: No signal (Power on) |
| | 2: Turn the display off by remote control |
| | 3: Turn the display off by sleep time function |
| | 4: Turn the display off by RS-232-C function |
| | 8: Turn the display off by off time function |
| | 9: Turn the display off by auto off function |

17. ISM Method (Command: j p)

Used to select the afterimage preventing function.

Transmission

```
[j][p][Set ID][Data][Cr]
```

| | |
|--------|----------------|
| [Data] | 1H: Inversion |
| | 2H: Orbiter |
| | 4H: White Wash |
| | 6H: Dot wash |
| | 8H: Off |

Acknowledgement

```
[p][Set ID][OK][Data][x]
```

18. Auto Configure (Command: j u)

To adjust picture position and minimize image shaking automatically. It works only in RGB (PC) mode.

Transmission

```
[j][u][Set ID][Data][Cr]
```

[Data] 1: To set

Acknowledgement

[u][Set ID][OK][Data][x]

19. Key (Command: m c)

To send an infrared remote control key press.

Transmission

[m][c][Set ID][Data][Cr]

[Data] Code of the desired key.

Acknowledgement

[c][Set ID][OK][Data][x]

20. Subnet mask, NSM setup (Command: v l)

To set the subnet mask for Network Sign Manager.

Transmission

[v][l][Set ID][Data][Cr]

[Data] A text string, of the form: "hhhhh"
where h is a hex digit.

Acknowledgement

[l][Set ID][OK/NG][Data][x]

21. Tile H Position (Command: d e)

To set the Horizontal position of this display within a tiled array.

Transmission

```
[d][e][Set ID][Data][x]
```

```
[Data]      Min: 1 to Max: 5
```

Acknowledgement

```
[e][Set ID][OK/NG][Data][x]
```

22. Tile V Position (Command: d f)

To set the Vertical position of this display in a tiled array.

Transmission

```
[d][f][Set ID][Data][x]
```

```
[Data]      Min: 1 to Max: 5
```

Acknowledgement

```
[f][Set ID][OK/NG][Data][x]
```

23. Tile H Monitors (Command: d g)

To set the number of columns.

Transmission

```
[d][g][Set ID][Data][x]
```

```
[Data]      Min: 1 to Max: 5
```

Acknowledgement

```
[g][Set ID][OK/NG][Data][x]
```

24. Tile V Monitors (Command: d h)

To set the number of rows.

Transmission

[d][h][Set ID][Data][x]

[Data] Min: 1 to Max: 5

Acknowledgement

[h][Set ID][OK/NG][Data][x]

25. Display Location (Command: v b)

To fill the Display Location field for VOE.

Transmission

[v][b][Set ID][Data][x]

[Data] A text string, 32 characters maximum.

Acknowledgement

[b][Set ID][OK/NG][Data][x]

26. Natural Mode (In Tile Mode) (Command: d j)

To assign the Title Natural mode for Tiling function.

Transmission

[d][j][Set ID][Data][x]

[Data] 0: Natural Off

 1: Natural On

 ff: Read Status

Acknowledgement

[j][Set ID][OK/NG][Data][x]

27. Picture Mode (Command: d x)

To adjust the picture mode.

Transmission

[d][x][Set ID][Data][x]

Data Structure

| Data (Hex) | MODE |
|------------|------|
|------------|------|

| | |
|----|-------|
| 00 | Vivid |
|----|-------|

| | |
|----|----------|
| 01 | Standard |
|----|----------|

| | |
|----|--------|
| 02 | Cinema |
|----|--------|

| | |
|----|----------|
| 05 | Expert 1 |
|----|----------|

Acknowledgement

[x][Set ID][OK/NG][Data][x]

28. Sound Mode (Command: d y)

To adjust the Sound mode.

Transmission

[d][y][Set ID][Data][X]

Data Structure

| Data (Hex) | MODE |
|------------|------|
|------------|------|

| | |
|----|----------|
| 01 | Standard |
|----|----------|

| | |
|----|-------|
| 02 | Voice |
|----|-------|

Acknowledgement

[y][Set ID][OK/NG][Data][x]

29. Player Name (Command: v d)

To fill the Player Name field for VOE.

Transmission

[v][d][Set ID][Data][x]

[Data] A text string up to 64 characters long.

Acknowledgement

[d][Set ID][OK/NG][Data][x]

30. Operating time (Command: d l)

To read the hours of operating time.

Transmission

[d][l][Set ID][Data][x]

[Data] Data is always FF (in Hex)

Acknowledgement

[l][Set ID][OK/NG][Data][x]

[Data] The data means used hours.
(Hexadecimal code)

31. Thermal value (Command: d n)

To read the inside temperature.

Transmission

[d][n][Set ID][Data][x]

[Data] Data is always FF (in Hex)

Acknowledgement

[n][Set ID][OK/NG][Data][x]

[Data] The data is 1 byte signed integer between –128 and 127.

32. LED fault Check (Command: d p)

To check LED fault.

Transmission

[d][p][Set ID][Data][x]

[Data] Data is always FF (in Hex)

Acknowledgement

[p][Set ID][OK/NG][Data][x]

[Data] 0: LED Fault
 1: LED OK
 2: N/A(DPM/Power Off)

33. DHCP (VOE) (Command: v e)

Set DHCP on or off for VOE.

Transmission

[v][e][Set ID][Data][x]

[Data] 0: Disable
 1: Enable

Acknowledgement

[e][Set ID][OK/NG][Data][x]

34. Speaker (Command: d v)

Turn the speaker on or off.

Transmission

[d][v][Set ID][Data][x]

[Data] 0: Off

 1: On

Acknowledgement

[v][Set ID][OK/NG][Data][x]

35. Time (Command: f a)

Set the current time.

Transmission

[f][a][Set ID][Year][Month][Day of Month][Hour][Minute]
[Daylight Saving Time][Cr]

[Year] 00H — 63H

 The given value is added to 2000 to
 obtain the year.

[Month] 00H to 0BH

[Day of Month] 01H to 1EH

[Hour] 00H to 17H

[Minute] 00H to 3BH

[Daylight saving time] 0: Off
1: On

Acknowledgement

[a][Set ID][OK/NG][Year][Month][Day of Month][Hour][Minute]
[Daylight Saving Time][x]

When reading data, FFH is inputted for all arguments. In other cases, all are treated as NG.

36. On Timer (On/Off Timer) Time (Command: f d)

Set On Timer.

Transmission

[f][d][Set ID][Data1][Data2][Data3][Data4][Data5][Cr]

| | 1. | 2. |
|---------|--|--|
| [Data1] | F1H to F7H (write/read one index) | E0H to E7H (delete one index), E0H (delete all indexes) |
| | F1: write/read 1st index of On Time List | |
| | F2: write/read 2nd index of On Time List | |
| | F3: write/read 3rd index of On Time List | |
| | F4: write/read 4th index of On Time List | |
| | F5: write/read 5th index of On Time List | |
| | F6: write/read 6th index of On Time List | |
| | F7: write/read 7th index of On Time List | |

[Data2] 01H to 80H (write) (Day of Week)

bit0 (01H): Monday

bit1 (02H): Tuesday

bit2 (04H): Wednesday

bit3 (08H): Thursday

bit4 (10H): Friday

bit5 (20H): Saturday

bit6 (40H): Sunday

bit7 (80H): Every day

(1FH): Monday to Friday

(3FH): Monday to Saturday

(60H): Saturday to Sunday

[Data3] Every Week (write)

00H: Disable Every Week

01H: Enable Every Week

[Data4] 00H to 17H, FFH (Hours)

[Data5] 00H to 3BH, FFH (Minutes)

When you read/delete the current on time list, all of [Data2][Data3][Data4][Data5] have to be FFH

ex1: fd 01 F1 FF FF FF FF - when you read 1st index of On Time List

ex2: fd 01 E1 FF FF FF FF - when you delete 1st index of On Time List

ex3: fd 01 F1 3F 01 02 03 - when you write 1st index of On Time Data, "Monday to Saturday every week, 02:03"

Acknowledgement

[d][Set ID][OK][Data1][Data2][Data3][Data4][Data5][x]

37. Off Timer (On/Off Timer) Time (Command: f e)

Set Off Timer.

Transmission

[f][e][Set ID][Data1][Data2][Data3][Data4][Data5][Cr]

| | 1. | 2. |
|---------|---|--|
| [Data1] | F1H to F7H (write/read one index) | E0H to E7h (delete one index), E0H (delete all indexes) |
| | F1: write/read 1st index of Off Time List | |
| | F2: write/read 2nd index of Off Time List | |
| | F3: write/read 3rd index of Off Time List | |
| | F4: write/read 4th index of Off Time List | |
| | F5: write/read 5th index of Off Time List | |
| | F6: write/read 6th index of Off Time List | |
| | F7: write/read 7th index of Off Time List | |

| | |
|---------|----------------------------------|
| [Data2] | 01H to 80H (write) (Day of Week) |
| | bit0 (01H): Monday |
| | bit1 (02H): Tuesday |
| | bit2 (04H): Wednesday |
| | bit3 (08H): Thursday |
| | bit4 (10H): Friday |
| | bit5 (20H): Saturday |
| | bit6 (40H): Sunday |
| | bit7 (80H): Every day |
| | (1FH): Monday to Friday |
| | (3FH): Monday to Saturday |
| | (60H): Saturday to Sunday |

| | |
|---------|-------------------------|
| [Data3] | Every Week (write) |
| | 00H: Disable Every Week |
| | 01H: Enable Every Week |

| | |
|---------|-------------------------|
| [Data4] | 00H to 17H, FFH (Hours) |
|---------|-------------------------|

[Data5] 00H to 3BH, FFH (Minutes)

When you read/delete the current off time list, all of [Data2][Data3][Data4][Data5] have to be FFH

ex1: fd 01 F1 FF FF FF FF - when you read 1st index of Off Time List

ex2: fd 01 E1 FF FF FF FF - when you delete 1st index of Off Time List

ex3: fd 01 F1 3F 01 02 03 - when you write 1st index of Off Time Data, "Monday to Saturday every week, 02:03"

Acknowledgement

[e][Set ID][OK][Data1][Data2][Data3][Data4][Data5][x]

38. Scheduling Input select (Command: f u) (Main Picture Input)

To select input source for scheduled On times.

Transmission

[f][u][Set ID][Data1][Data2][Cr]

[Data1] F1h to F7h(write/read one index)

F1: read 1st index of On Time Input

F2: read 2nd index of On Time Input

F3: read 3rd index of On Time Input

F4: read 4th index of On Time Input

| | Data (Hex) | INPUT |
|---------|------------|------------------|
| [Data2] | 07H | VGA |
| | 09H | Ethernet |
| | 0BH | DisplayPort (PC) |

When you read/delete the current On Time Input, [Data2] needs to be 0xFF.

ex1: fu 01 F1 FF- when you read 1st index of On Time Input

ex2: fu 01 F3 07- when you write one On Time Input Data in to 3rd index, "RGB"

Acknowledgement

```
[u][Set ID][OK][Data1][Data2][x]
```

39. IP Address, VOE Setup (Command: v f)

Set the IP address for VOE.

Transmission

```
[v][f][Set ID][Data][Cr]
```

[Data] A text string, of the form: "hhhhh"
 where h is a hex digit.

Acknowledgement

```
[f][Set ID][OK/NG][Data][x]
```

40. Auto Detection (Command: f g)

Set Auto Detection.

Transmission

```
[f][g][Set ID][Data][Cr]
```

[Data] 0: Off
 1: On

Acknowledgement

```
[g][Set ID][OK/NG][Data][x]
```

41. Power On Delay (Command: f h)

Turn off or on the power-on-delay feature.

Transmission

```
[f][h][Set ID][Data][Cr]
```

| | |
|--------|--------|
| [Data] | 0: Off |
| | 1: On |

Acknowledgement

[h][Set ID][OK/NG][Data][x]

42. Language (Command: f i)

Set the OSD language.

Transmission

[f][Set ID][Data][Cr]

| | |
|--------|---------------|
| [Data] | 0: English |
| | 1: French |
| | 2: German |
| | 3: Spanish |
| | 4: Italian |
| | 5: Portuguese |
| | 6: Chinese |
| | 7: Japanese |
| | 8: Korean |
| | 9: Dutch |

Acknowledgement

[i][Set ID][OK/NG][Data][x]

43. DPM Select (Command: f j)

Set the DPM (Display Power Management) function.

Transmission

[f][Set ID][Data][Cr]

| | |
|--------|-------------|
| [Data] | 0: Off |
| | 1: On |
| | 2: VGA only |

Acknowledgement

[j][Set ID][OK/NG][Data][x]

44. Reset (Command: f k)

Execute the Factory Reset function.

Transmission

[f][k][Set ID][Data][Cr]

| | |
|--------|------------------|
| [Data] | 2: Factory Reset |
|--------|------------------|

Acknowledgement

[k][Set ID][OK/NG][Data][x]

45. Energy saving (Command: f l)

To set the energy saving mode.

Transmission

[f][l][Set ID][Data][Cr]

| | |
|--------|------------|
| [Data] | 0: Off |
| | 1: Level 1 |
| | 2: Level 2 |
| | 3: Level 3 |

Acknowledgement

[l][Set ID][OK/NG][Data][x]

46. Subnet mask, VOE Setup (Command: v g)

To set the subnet mask for VOE.

Transmission

```
[v][g][Set ID][Data][Cr]
```

```
[Data]      A text string, of the form: "hhhhh"  
            where h is a hex digit.
```

Acknowledgement

```
[g][Set ID][OK/NG][Data][x]
```

47. Serial no. Check (Command: f y)

To read the serial numbers

Transmission

```
[f][y][Set ID][Data][Cr]
```

```
[Data]      Data FF (to read the serial numbers)
```

Acknowledgement

```
[y][Set ID][OK/NG][Data1]to[Data13][x]
```

```
[Data]      The data format is ASCII Code.
```

48. S/W Version (Command: f z)

Check the software version.

Transmission

```
[f][z][Set ID][Data][Cr]
```

```
[Data]      FFH: Read
```

Acknowledgement

```
[z][Set ID][OK/NG][Data][x]
```

49. IP Address, NSM setup (Command: v k)

To set the IP Address for Network Sign Manager.

Transmission

```
[v][k][Set ID][Data][Cr]
```

[Data] A text string, of the form: "hhhhh"
 where h is a hex digit.

Acknowledgement

```
[k][Set ID][OK/NG][Data][x]
```

50. Mac Address, VOE Setup (Command: v h)

To set the Mac address for VOE.

Transmission

```
[v][h][Set ID][Data][Cr]
```

[Data] A text string, of the form:
 "hhhhhhhhhh" where h is a hex digit.

Acknowledgement

```
[h][Set ID][OK/NG][Data][x]
```

51. Check VOE availability (Command: v i)

To check whether display is free or attached to a media player by VOE. When the display is attached, no configuration may be performed.

Transmission

```
[v][i][Set ID][Data][Cr]
```

[Data] FFH: Read

Acknowledgement

[] [] [Set ID] [] [OK/NG] [Data] [x]

[Data] 0: Free
1: Busy (Configuring display not allowed)

52. Mac Address, NSM setup (Command: v j)

To set the Mac address for Network Sign Manager.

Transmission

[v] [j] [] [Set ID] [] [Data] [Cr]

[Data] A text string, of the form:
"hhhhhhhhhh" where h is a hex digit.

Acknowledgement

[] [] [Set ID] [] [OK/NG] [Data] [x]
