ENGLISH

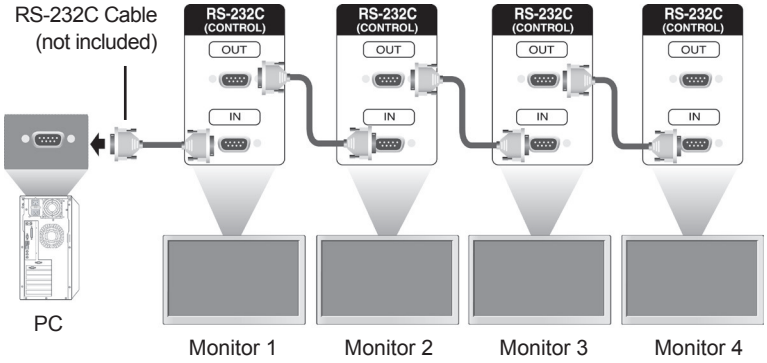
# CONTROLLING THE MULTIPLE PRODUCT

- Use this method to connect several products to a single PC. You can control several products at a time by connecting them to a single PC.
- In the Option menu, Set ID must be between 1 and 255 without being duplicated.

## Connecting the cable

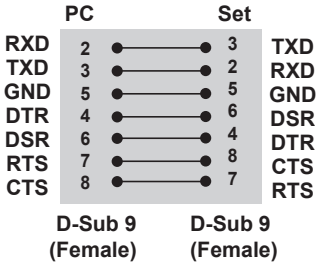
Connect the RS-232C cable as shown in the picture.

- The RS-232C protocol is used for communication between the PC and product. You can turn the product on/off, select an input source or adjust the OSD menu from your PC.

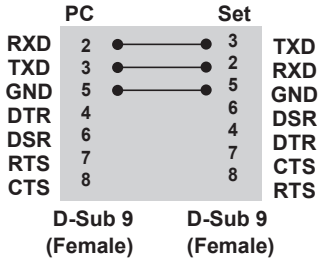



## RS-232C Configurations

7-Wire Configurations (Standard RS-232C cable)




3-Wire Configurations (Not Standard)




## Communication Parameter

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

# Command reference list

| | COMMAND | | DATA (Hexadecimal) |
|---|---|---|---|
| | 1 | 2 | |
| 01. Power | k | a | 00 to 01 |
| 02. Input Select | x | b | Refer to ‘Input Select.’ |
| 03. Aspect Ratio | k | c | Refer to ‘Aspect Ratio.’ |
| 04. Energy Saving | j | q | Refer to ‘Energy Saving.’ |
| 05. Picture mode | d | x | Refer to ‘Picture mode.’ |
| 06. Contrast | k | g | 00 to 64 |
| 07. Brightness | k | h | 00 to 64 |
| 08. Sharpness | k | k | 00 to 64 |
| 09. Color | k | i | 00 to 64 |
| 10. Tint | k | j | 00 to 64 |
| 11. Color Temperature | x | u | 00 to 64 |
| 12. H Position | f | q | 00 to 64 |
| 13. V Position | f | r | 00 to 64 |
| 14. H Size | f | s | 00 to 64 |
| 15. Auto configuration | j | u | 01 |
| 16. Balance | k | t | 00 to 64 |
| 17. Sound mode | d | y | Refer to ‘Sound mode.’ |
| 18. Treble | k | r | 00 to 64 |
| 19. Bass | k | s | 00 to 64 |
| 20. Speaker | d | v | 00 to 01 |
| 21. Volume Mute | k | e | 00 to 01 |
| 22. Volume Control | k | f | 00 to 64 |
| 23. Time 1(Years/ Months/ Days) | f | a | Refer to ‘Time 1.’ |
| 24. Time 2(Hours/ Minutes/Seconds) | f | x | Refer to ‘Time 2.’ |
| 25. Off Timer(Repeat mode/ Time) | f | e | Refer to ‘Off Timer.’ |
| 26. On Timer(Repeat Mode/ Time) | f | d | Refer to ‘On Timer.’ |
| 27. On Timer Input | f | u | Refer to ‘On Timer Input.’ |
| 28. Sleep Time | f | f | 00 to 08 |
| 29. Power On Delay | f | h | 00 to 64 |
| 30. Automatic Standby | m | n | 00 to 01 |
| 31. Auto Off | f | g | 00 to 01 |
| 32. Language | f | i | Refer to ‘Language.’ |
| 33. Power Indicator(Standby Light) | f | o | 00 to 01 |
| 34. Power Indicator(Power Light) | f | p | 00 to 01 |
| 35. ISM mode | j | p | Refer to ‘ISM Method.’ |
| 36. Fail Over Select | m | i | 00H to 02H |

| | COMMAND | | DATA (Hexadecimal) |
|---|---|---|---|
| | 1 | 2 | |
| 37. Fail Over Input Select | m | j | Refer to 'Fail Over Input Select.' |
| 38. Reset | f | K | 00 to 03 |
| 39. Tile Mode | d | d | 00 to FF |
| 40. Tile Mode Check | d | z | FF |
| 41. Tile ID | d | i | Refer to 'Tile ID.' |
| 42. Tile H Position | d | e | 00 to 32 |
| 43. Tile V Position | d | f | 00 to 32 |
| 44. Tile H Size | d | g | 00 to 32 |
| 45. Tile V Size | d | h | 00 to 32 |
| 46. Natural Mode (In Tile mode) | d | j | 00 to 01 |
| 47. DPM Select | f | j | 00 to 01 |
| 48. FAN Control | d | o | 00H to 03 |
| 49. FAN Fault Check | d | w | FF |
| 50. Temperature Value | d | n | FF |
| 51. Remote Lock/ key Lock | k | m | 00 to 01 |
| 52. Key | m | c | Refer to 'Key.' |
| 53. OSD Select | k | l | 00 to 01 |
| 54. Elapsed time return | d | l | FF |
| 55. Serial No. Check | f | y | FF |
| 56. S/W Version | f | z | FF |
| 57. White Balance Red Gain | j | m | 00 to FE |
| 58. White Balance Green Gain | j | n | 00 to FE |
| 59. White Balance Blue Gain | j | o | 00 to FE |
| 60. Backlight | m | g | 00 to 64 |
| 61. PC Power Control | d | t | 00 to 01 |
| 62. PC Power | d | s | 00 to 01 |

- Note : During USB operations such as Dvix or EMF, all commands except Power(k a) and Key(m c) are not executed and treated as NG.

# Transmission / Receiving protocol

**Transmission**

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

* [Command1]: First command to control the set.
* [Command2]: Second command to control the set.
* [Set ID]: Set ID with which you want to communicate. Enter [Set ID] = '00(0x00' to communicate with all sets regardless of their Set ID numbers.
* [Data]: Information passed to the set.
* [Data1]: Information passed to the set.
* [Data2]: Information passed to the set.
* [Data3]: Information passed to the set.
* [Cr]: Carriage Return. ASCII code '0x0D'.
* [ ]: ASCII code space '0x20'

**Acknowledgement**

[Command2][ ][Set ID][ ][OK/NG][Data][x]

* When the product receives data normally, it sends an acknowledgement (ACK) in the format above. If data is in read mode, it indicates the data that shows the current status. If data is in read mode, it simply indicates the data that is sent from the PC.
* If a command is sent with Set ID '00' (=0x00), the data is reflected to all monitor sets and they do send any acknowledgement (ACK).
* If the data value 'FF' is sent in control mode via RS-232C, the current setting value of a function can be checked (only for some functions).
* Some commands are not supported depending on the model.

**01. Power (Command: k a)**

To control the Power On/Off the display.

Transmission

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

Data 00 : Off
01 : On

Acknowledgement

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

* Only when the monitor set is fully powered on, the Acknowledgement signal is returned properly.
* There may be a certain time of delay between the Transmission and Acknowledgement signals.

**02. Input Select (Command: x b)**

To select the Input Source for display.

Transmission

[x][b][ ][Set ID][ ][Data][Cr]

Data 20: Input (AV)
40: Component
60: RGB
70: DVI-D(PC)
80: DVI-D(DTV)
90: HDMI(HDMI1)(DTV)
A0: HDMI(HDMI1)(PC)
C0: Display Port(DTV)
D0: Display Port(PC)
91: HDMI2/SDI(DTV)
A1: HDMI2/SDI(PC)
B0: SuperSign

Acknowledgement

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

* Some input signals may not be supported depending on the model.

**03. Aspect Ratio (Command: k c)**

To adjust the screen format.

Transmission

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

Data 01: 4:3
02: 16:9
04: Zoom
09: Just scan (720p or more)
(Component, HDMI/ DVI-D/ Display Port DTV)
* RGB, DVI-D, HDMI/Display Port PC mode (1:1)
10 to 1F: Cinema Zoom 1 to 16
(AV, Component, HDMI DTV)

* Available data types differ depending on the input signal. For more information, see the aspect ratio section of the owner's manual.
* The aspect ratio may differ depending on the model's input configuration.

Acknowledgement

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

**04. Energy Saving (Command: j q)**

To set the Energy Saving function.

Transmission

[j][q][ ][Set ID][ ][Data][Cr]

Data 00: Off
01: Minimum
02: Medium
03. Maximum
04: Auto
05. Screen Off

Acknowledgement

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

** It may not be supported depending on the model.

**05. Picture Mode (Command: d x)**

To select the Picture Mode.

Transmission

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

Data 00: Vivid
01: Standard
02. Cinema
03. Sport
04: Game

Acknowledgement

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

**06. Contrast (Command: k g)**

To adjust the screen contrast.

Transmission

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

Data 00 to 64: Contrast 0 to 100

Acknowledgement

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

**07. Brightness (Command: k h)**

To adjust the screen brightness.

Transmission

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

Data 00 to 64: Brightness 0 to 100

Acknowledgement

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

**08. Sharpness (Command: k k)**

To adjust the screen sharpness.

* This function is available only in AV/Component input.

Transmission

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

Data 00 to 64: Sharpness 0 to 100

Acknowledgement

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

**09. Color (Command: k i)**

To adjust the screen color.

* This function is available only in AV/Component input.

Transmission

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

Data 00 to 64: Color 0 to 100

Acknowledgement

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

**10. Tint (Command: k j)**

To adjust the screen tint.

* This function is available only in AV/Component input.

Transmission

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

Data 00 to 64: Tint R50 to G50

Acknowledgement

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

**11. Color Temperature (Command: x u)**

To adjust the screen Color Temperature.

Transmission

[x][u][ ][Set ID][ ][Data][Cr]

Data 00 to 64: Warm 50 to Cool 50

Acknowledgement

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

**12. H Position (Command: f q)**

To adjust the screen Horizontal Position.

* This function is available only when the Tile Mode is set to Off.
* The operational range varies depending on the RGB input resolution.
(Only available for RGB-PC input.)

Transmission

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

Data 00 to 64: min. -50 (Left) to max. 50 (Right)

Acknowledgement

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

**13. V Position (Command: f r)**

To adjust the screen Vertical Position.
* This function is available only when the Tile Mode is set to Off.
* The operational range varies depending on the RGB input resolution.
(Only available for RGB-PC input.)

Transmission

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

00 to 64: min. -50 (Bottom) to max. 50 (Top)

Acknowledgement

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

**14. H Size (Command: f s)**

To adjust the screen Horizontal Size.
* This function is available only when the Tile Mode is set to Off.
* The operational range varies depending on the RGB input resolution.
(Only available for RGB-PC input.)

Transmission

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

Data 00 - 64: Min. -50 (Reduce) - Max. 50 (Expand)

Acknowledgement

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

**15. Auto Configuration (Command: j u)**

To adjust the picture position and minimize image shaking automatically.
(Only available for RGB-PC input.)

Transmission

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

Data 01 : Set

Acknowledgement

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

**16. Balance (Command: k t)**

To adjust the sound balance.

Transmission

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

Data 00 to 64: Left 50 to Right 50

Acknowledgement

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

**17. Sound Mode (Command: d y)**

To select the Sound Mode.

Transmission

[d][y][ ][Set ID][ ][Data][Cr]

Data 01: Standard
02: Music
03: Cinema
04: Sport
05. Game

Acknowledgement

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

**18. Treble (Command: k r)**

To adjust the Treble values.

Transmission

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

Data 00 to 64: Treble 0 to 100

Acknowledgement

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

**19. Bass (Command: k s)**

To adjust the Bass values.

Transmission

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

Data 00 to 64: Bass 0 to 100

Acknowledgement

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

**20. Speaker (Command: d v)**

To select the speaker on/off.

Transmission

[d][v][ ][Set ID][ ][Data][Cr]

Data 00: Off
01: On

Acknowledgement

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

**21. Volume Mute (Command: k e)**

To control the Volume Mute on/off.

Transmission

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

Data 00 : Mute (Volume Off)
01 : Current volume (Volume On)

Acknowledgement

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

**22. Volume Control (Command: k f)**

To set the playback volume.

Transmission

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

Data 00 to 64: Volume 0 to 100

Acknowledgement

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

**23. Time 1(Year/ Month/ Day) (Command: f a)**

To set the Time 1(Year/ Month/ Day) values.

Transmission

[f][a][ ][Set ID][ ][Data1][ ][Data2][ ][Data3][Cr]

Data 1 00 to 14: 2010 to 2030
Data 2 01 to 0C: January to December
Data 3 01 to 1F: 1 to 31
* Enter “fa [Set ID] ff” for checking Time 1(Year/ Month/ Day) values.

Acknowledgement

[a][ ][Set ID][ ][OK/NG][Data1][Data2][Data3][x]

**24. Time 2(Hour/ Minute/ Second) (Command: f x)**

To set the Time 2(Hour/ Minute/ Second) values.

Transmission

[f][x][ ][Set ID][ ][Data1][ ][Data2][ ][Data3][Cr]

Data1 00 to 17: 00 to 23 hours
Data2 00 to 3B: 00 to 59 minutes
Data3 00 to 3B: 00 to 59 seconds
* Enter “fx [Set ID] ff” for checking Time 2(Hour/ Minute/ Second) values.
** This command won’t work if Time 1(Year/ Month/ Day) has not been set in advance.

Acknowledgement

[x][ ][Set ID][ ][OK/NG][Data1][Data2][Data3][x]

**25. Off Timer(Repeat Mode/ Time) (Command: f e)**

To set the Off Timer(Repeat Mode/ Time) function.

Transmission

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

Data1
1. f1h to f7h (Read data)
F1: Read the 1st Off Time data
F2: Read the 2nd Off Time data
F3: Read the 3rd Off Time data
F4: Read the 4th Off Time data
F5: Read the 5th Off Time data
F6: Read the 6th Off Time data
F7: Read the 7th Off Time data
2. e1h-e7h (Delete one index), e0h (Delete all indexes)
E0: Delete all Off Time data
E1: Delete the 1st Off Time data
E2: Delete the 2nd Off Time data
E3: Delete the 3rd Off Time data
E4: Delete the 4th Off Time data
E5: Delete the 5th Off Time data
E6: Delete the 6th Off Time data
E7: Delete the 7th Off Time data
3. 01h to 06h (Set the day of week for Off Time)
00: Off
01: Once
02. Daily
03: Monday to Friday
04: Monday to Saturday
05: Saturday to Sunday
06. Sunday
07. Monday
08. Tuesday
09. Wednesday
0A. Thursday
0B. Friday
0C. Saturday
Data2 00 to 17: 00 to 23 Hours
Data3 00 to 3B: 00 to 59 Minutes
* To read or delete the Off Time list, set FFH for [Data2] and [Data3].
(Example 1: fe 01 f1 ff ff - Read the 1st Off Time data.)
(Example 2: fe 01 e1 ff ff - Delete the 1st Off Time data.)
(Example 3: fe 01 04 02 03 - Set the Off Time to "Monday to Saturday, 02:03".)
* This function is supported only when 1 (Year/Month/Day) and 2 (Hour/Minute/Second) are set.

Acknowledgement

[e][ ][Set ID][ ][OK/NG][Data1][Data2][Data3][x]

**26. On Timer(Repeat Mode/ Time) (Command: f d)**

To set the On Timer(Repeat mode/ Time) function.

Transmission

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

Data1
1. f1h to f7h (Read data)
F1: Read the 1st On Time data
F2: Read the 2nd On Time data
F3: Read the 3rd On Time data
F4: Read the 4th On Time data
F5: Read the 5th On Time data
F6: Read the 6th On Time data
F7: Read the 7th On Time data
2. e1h-e7h (Delete one index), e0h (Delete all indexes)
E0: Delete all On Time data
E1: Delete the 1st On Time data
E2: Delete the 2nd On Time data
E3: Delete the 3rd On Time data
E4: Delete the 4th On Time data
E5: Delete the 5th On Time data
E6: Delete the 6th On Time data
E7: Delete the 7th On Time data
3. 01h to 06h (Set the day of week for On Time)
00: Off
01: Once
02. Daily
03: Monday to Friday
04: Monday to Saturday
05: Saturday to Sunday
06. Sunday
07. Monday
08. Tuesday
09. Wednesday
0A. Thursday
0B. Friday
0C. Saturday
Data2 00 to 17: 00 to 23 Hours
Data3 00 to 3B: 00 to 59 Minutes
* To read or delete the Off Time list, set FFH for [Data2] and [Data3].
(Example 1: fd 01 f1 ff ff - Read the 1st On Time data.)
(Example 2: fd 01 e1 ff ff - Delete the 1st On Time data.)
(Example 3: fd 01 04 02 03 - Set the On Time to "Monday to Saturday, 02:03".)
* This function is supported only when 1 (Year/Month/Day) and 2 (Hour/Minute/Second) are set.

Acknowledgement

[d][ ][Set ID][ ][OK/NG][Data1][Data2][Data3][x]

**27. On Timer Input (Command: f u)**

To select an external input for the current On Time setting and add a new schedule or change the existing schedule.

Transmission

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

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

Data (Add schedule)
20: Input (AV)
40: Component
60. RGB
70: DVI-D
90: HDMI (HDMI1)
C0: Display Port
91: HDMI2/SDI
B0:SuperSign
Data1 (Change schedule)
1. f1h to f4h (Read data)
F1: Select the 1st schedule input
F2: Select the 2nd schedule input
F3: Select the 3rd schedule input
F4: Select the 4th schedule input
F5: Select the 5th schedule input
F6: Select the 6th schedule input
F7: Select the 7th schedule input
Data2
20: Input (AV)
40: Component
60: RGB
70: DVI-D
90: HDMI (HDMI1)
C0: Display Port
91: HDMI2/SDI
B0:SuperSign
* To read the schedule input, enter FFH for [Data2].
(Example 1: fu 01 60 - Move each schedule input down one row and save the 1st schedule input in RGB mode.)
(Example 2: fu 01 f1 ff - Read the 1st schedule input.)
(Example 3: fu 01 f3 20 - Change the 3rd data schedule input to the current On Time and AV input.)
* This function is supported only when 1 (Year/Month/Day), 2 (Hour/Minute/Second), On Time (Repeat Mode/Time) are set.
** It may not be supported depending on the model.

Acknowledgement

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

[u][ ][Set ID][ ][OK/NG][Data1][Data2][x]

**28. Sleep Time (Command: f f)**

To set the Sleep Time.

Transmission

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

Data 00: Off (Sleep Timer off)
01: 10 min.
02: 20 min.
03: 30 min.
04: 60 min.
05: 90 min.
06: 120 min.
07: 180 min.
08: 240 min.

Acknowledgement

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

**29. Power On Delay (Command: f h)**

To set the schedule delay when the power is turned on. (Unit: Second)

Transmission

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

Data 00 to 64: min. 0 to max. 100 (sec.)

Acknowledgement

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

**30. Automatic Standby (Command: m n)**

To set the Automatic Standby function.

Transmission

[m][n][ ][Set ID][ ][Data][Cr]

Data 00: Off (No off after 4 hours)
01: 4 Hours (Off after 4 hours)

Acknowledgement

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

**31. Auto Off (Command: f g)**

To set the Auto Off function.

Transmission

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

Data 00: Off (No off after 15 minutes)
01: 15 min.(Off after 15 minutes)

Acknowledgement

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

**32. Language (Command: f i)**

To set the language for OSD.

Transmission

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

Data 00: Czech
01: Danish
02: German
03: English
04: Spanish (EU)
05: Greek
06: French
07: Italian
08: Dutch
09: Norwegian
0A: Portuguese
0B: Portuguese (BR)
0C: Russian
0D: Finnish
0E: Swedish
0F: Korean
10: Chinese (Mandarin)
11: Japanese
12: Yue Chinese (Cantonese)

Acknowledgement

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

**33. Power Indicator (Standby Light) (Command: f o)**

To set the Power Indicator (Standby Light) function.

Transmission

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

Data 00: Off
01: On

** It may not be supported depending on the model.

Acknowledgement

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

**34. Power Indicator (Power Light) (Command: f p)**

To set the Power Indicator (Power Light) function.

Transmission

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

Data 00: Off
01: On

** It may not be supported depending on the model.

Acknowledgement

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

**35. ISM mode (Command: j p)**

To select ISM method for avoiding having a fixed image remain on screen.

Transmission

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

Data 01: Inversion
02: Orbiter
04: White Wash
08. Normal

Acknowledgement

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

**36. Fail Over Select (Command: m i)**

To set the Fail Over function.

Transmission

[m][i][ ][Set ID][ ][Data][Cr]

Data 00: Off
01: Auto
02: Manual

Acknowledgement

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

**37. Fail Over Input Select (Command: m j)**

To select the input source for auto switch.

* This command is only available when the fail over (auto) mode is set to Custom.

Transmission

[m][j][ ][Set ID][ ][Data1][ ][Data2][ ][Data3][Cr]
[ ][Data4][ ][Data5][Cr]

Data 1 to 5 (Priority 1 to 5)
60: RGB
70: DVI-D
90: HDMI(HDMI1)
C0: Display Port
91: HDMI2/SDI

* The number of data items differs depending on the model.

Acknowledgement

[j][ ][SetID][ ][OK/NG][Data1][Data2][Data3][Data4]
[ ][Data5][x]

Data 1 to 5 (Priority 1 to 5)
60: RGB
70: DVI-D
90: HDMI(HDMI1)
C0: Display Port
91: HDMI2/SDI

* The number of data items differs depending on the model.

**38. Reset (Command: f k)**

To execute the Picture, Screen, Audio and Factory reset function.

Transmission

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

Data 00: Picture Reset
01: Screen Reset
02: Factory Reset
03: Audio Reset

Acknowledgement

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

**39. Tile Mode (Command: d d)**

To set a Tile Mode and Tile Column/ Row values.

Transmission

[d][d][ ][Set ID][ ][Data][Cr]

Data 00 to FF: 1st byte - Tile Row
2nd byte - Tile Column

*00, 01, 10, 11 means Tile Mode Off.

Acknowledgement

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

** It may not be supported depending on the model.

**40. Tile Mode Check (Command: d z)**

To check Tile Mode status.

Transmission

[d][z][ ][Set ID][ ][Data][Cr]

Data FF: Check Tile Mode status.

** It may not be supported depending on the model.

Acknowledgement

[z][ ][Set ID][ ][OK/NG][Data1][Data2][Data3][x]

Data1 00: Tile Mode Off
01: Tile Mode On
Data2 00 to 0F: Tile Row
Data3 00 to 0F: Tile Column

**41. Tile ID (Command: d i)**

To set Tile ID.

Transmission

[d][i][ ][Set ID][ ][Data][Cr]

Data 01 to E1: Tile ID 01 to 225**
FF: Check Tile ID

** Data could not be set over (Tile Column) x (Tile Row).

** It may not be supported depending on the model.

Acknowledgement

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

*NG will be return if data is over (Tile Column) x (Tile Row), except 0xFF.

**42. Tile H Position (Command: d e)**

To adjust the Tile Horizontal position.

* This function is available only when the Natural option of the Tile Mode is set to Off while the Tile Mode set to On.

Transmission

[d][e][ ][Set ID][ ][Data][Cr]

Data 00 to 32: -50 (Left) to 0 (Right)

*Left/Right values depend on Tile H size.

** It may not be supported depending on the model.

Acknowledgement

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

**43. Tile V Position (Command: d f)**

To adjust the Tile Vertical position.

* This function is available only when the Natural option of the Tile Mode is set to Off while the Tile Mode set to On.

Transmission

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

Data 0 to 32: 0 (Bottom) to 50 (Top)

* Bottom/Top values depend on Tile Vertical size.

** It may not be supported depending on the model.

Acknowledgement

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

**44. Tile H Size (Command: d g)**

To adjust the Tile Horizontal Size.

*Set Tile H Position to 0x32 before setting Tile H Size.

* This function is available only when the Natural option of the Tile Mode is set to Off while the Tile Mode set to On.

Transmission

[d][g][ ][Set ID][ ][Data][Cr]

Data 00 to 32: 0 to 50

** It may not be supported depending on the model.

Acknowledgement

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

**45. Tile V Size (Command: d h)**

To adjust the Tile Vertical size.

*Set Tile V Position to 0x00 before setting Tile V Size.

* This function is available only when the Natural option of the Tile Mode is set to Off while the Tile Mode set to On.

Transmission

[d][h][ ][Set ID][ ][Data][Cr]

Data 00 to 32: 0 to 50

** It may not be supported depending on the model.

Acknowledgement

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

**46. Natural Mode (In Tile Mode) (Command : d j)**

To display the image naturally, the part of the image that would normally be displayed in the gap between the monitors is omitted.

Transmission

[d][j][ ][Set ID][ ][Data][Cr]

Data 00: Off
01: On

Acknowledgement

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

**47. DPM Select (Command: f j)**

To set the DPM (Display Power Management) function.

Transmission

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

Data 00: Off
01: On

Acknowledgement

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

**48. FAN Control (Command : d o)**

To set the Fan mode.

Transmission

[d][o][ ][Set ID][ ][Data][Cr]

Data 00: Auto
01: On
02: Manual
03: Off

** It may not be supported depending on the model.

Acknowledgement

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

**49. FAN Fault Check (Command: d w)**

To check the fan errors.

Transmission

[d][w][ ][Set ID][ ][Data][Cr]

Data FF: Read the status

Acknowledgement

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

Data 00: Fan fault
01: Fan OK
02: Model without a Fan

**50. Temperature Value (Command: d n)**

To check the inside temperature value.

Transmission

[d][n][ ][Set ID][ ][Data][Cr]

Data FF: Check the status

Acknowledgement

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

* Temperature is displayed in hexadecimal.

**51. Remote Controller Lock/ Key Lock (Command: k m)**

When the remote control and front keys are locked in standby mode, the power cannot be turned on using the remote control or front power button.

Transmission

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

Data 00: Off (Lock Off)
01: On (Lock On)

* Display will not be turned on by power on key of remote controller and front panel control keys, if key is locked on in standby mode.

Acknowledgement

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

**52. Key (Command: m c)**

To send a key code of the IR remote control.

Transmission

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

Data IR_KEY_CODE

Acknowledgement

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

For a key code, see the IR Code.

* Some key codes are not supported depending on the model.

**53. OSD Select (Command: k l)**

To select OSD(On Screen Display) on/off.

Transmission

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

Data 00: Off
01: On

Acknowledgement

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

**54. Elapsed time return (Command: d l)**

To check the panel used time.

Transmission

[d][l][ ][Set ID][ ][Data][Cr]

Data FF: Read the status

Acknowledgement

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

* Returned data means used hours in hexadecimal.

**55. Serial No.Check (Command: f y)**

To check the Serial Numbers.

Transmission

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

Data FF: Check the product Serial Number

Acknowledgement

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

* Data is ASCII code.

**56. S/W Version (Command: f z)**

To check the Software Version.

Transmission

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

Data FF: Check the Software version

Acknowledgement

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

**57. White Balance Red Gain (Command: j m)**

To set the White Balance Red Gain.

Transmission

[j][m][ ][Set ID][ ][Data][Cr]

Data 00 to FE: Red Gain 0 to 254

Acknowledgement

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

**58. White Balance Green Gain (Command: j n)**

To set the White Balance Green Gain.

Transmission

[j][n][ ][Set ID][ ][Data][Cr]

Data 00 to FE: Green Gain 0 to 254

Acknowledgement

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

**59. White Balance Blue Gain (Command: j o)**

To set the White Balance Blue Gain.

Transmission

[j][o][ ][Set ID][ ][Data][Cr]

Data 00 to FE: Blue Gain 0 to 254

Acknowledgement

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

**60. Backlight (Command: m g)**

To adjust the screen backlight.

Transmission

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

Data 00 to 64: Backlight 0 to 100

Acknowledgement

[g][][set ID][][OK/NG][Data][x]

** It may not be supported depending on the model.

**61. PC Power Control (Command: d t)**

To control the PC power if the PC and the monitor are synchronized.

Transmission

[d][t][ ][Set ID][ ][Data][Cr]

Data

00: Synchronized (When the monitor is off, the PC is also turned off.)

01: Not synchronized (The monitor is off but the PC is on.)

** It may not be supported depending on the model.

Acknowledgement

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

Data

00: Synchronized (When the monitor is off, the PC is also turned off.)

01: Not synchronized (The monitor is off but the PC is on.)

**62. PC Power (Command: d s)**

To control the PC power when the PC and the monitor are not synchronized.

Transmission

[d][s][ ][Set ID][ ][Data][Cr]

Data 00: PC it turned off.
01: PC is turned on.

** It may not be supported depending on the model.

Acknowledgement

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

Data 00: PC it turned off.
01: PC is turned on.

LG
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**Declaration of Conformity**

Trade Name: LG
Model: 42WL10MS, 47WL10MS
Responsible Party: LG Electronics Inc.
Address: 1000 Sylvan Ave.
Englewood Cliffs NJ 07632
U.S.A
TEL: 201-266-2534

Make sure to read the Safety Precautions before using the product.
Keep the Owner's Manual(CD) in an accessible place for future reference.
The model and serial number of the SET is located on the back and one side of the SET. Record it below should you ever need service.

MODEL _____

SERIAL _____

To obtain the source code under GPL, LGPL, MPL and other open source licenses, that is contained in this product, please visit http://opensource.lge.com.
In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.
LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping and handling) upon email request to opensource@lge.com.
This offer is valid for three (3) years from the date on which you purchased the product.

ENERGY STAR is a set of power-saving guidelines issued by the U.S. Environmental Protection Agency(EPA).

ENERGY STAR

As an ENERGY STAR Partner LGE U. S. A.,Inc. has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

Temporary noise is normal when powering ON or OFF this device.