

OWNER'S MANUAL MONITOR SIGNAGE

Please read this manual carefully before operating your set and retain it for future reference.

MONITOR SIGNAGE MODELS M4225C

M3704C

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other							
reproductive harm. Wash hands after handling.							

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Accessories



Accessories

Thank you for your purchase. Please check the product as well as the accessories shown below

❖ Note that the accessories may look different from those shown here.





Separate purchase

Without prior notice, optional accessories are subject to change to improve the performance of the product, and new accessories may be added. To purchase optional accessories,

- Optional accessories (purchased separately) may vary depending on the model.
- Note that optional accessories may look different from those shown here.

Speaker kit

❖ Applicable only for models that support the speakers.





Speaker(2)

Screws (4) / Cable (2)

Cable holder/Cable tie



They may not be available in some areas or for some models.

Stand kit

Applicable only for models that support the stand.

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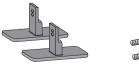


Stand (2)

Om Om

Screws (4)

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Stand (2)

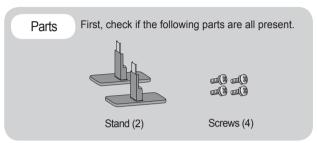
Screws (4)

Connecting the stand

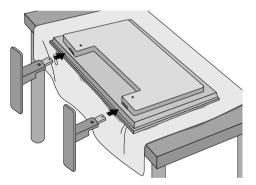
- Only on some models.

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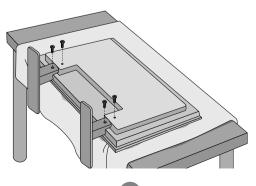
1. Take the parts for the stand out of the box and assemble them as shown in the picture.



2. Place a soft cloth on the table and put the product with the screen facing downward. Connect the stand as shown in the following picture.



3. Use the screws to secure the stand on the rear side of the product as shown in the diagram.

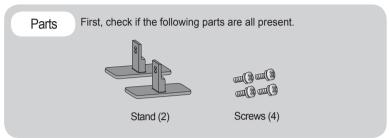


Connecting the stand

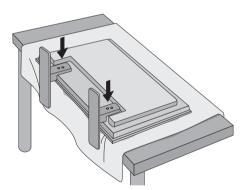
- Only on some models.

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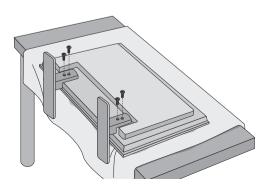
1. Take the parts for the stand out of the box and assemble them as shown in the picture.



2. Place a soft cloth on the table and put the product with the screen facing downward. Connect the stand as shown in the following picture.



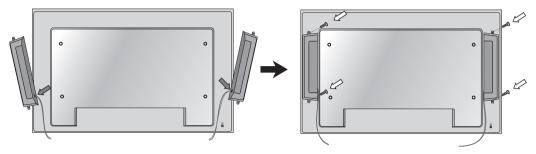
3. Use the screws to secure the stand on the rear side of the product as shown in the diagram.



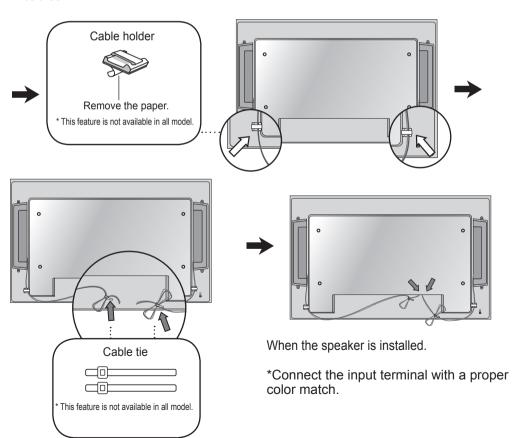
Connecting the Speakers

- Only on some models.

Mount the product onto the speaker by using a screw as shown in the following connect the speaker cable.



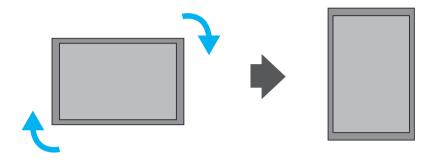
After installing your speakers, use holders and cable ties to organize the speaker cables.



To install Portrait

- Only on some models.

< Only M4225C >



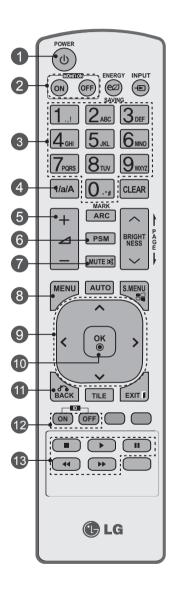
"When installing Portrait, rotate it clockwise based on its front."



 M3704C model cannot be installed in portrait position. Damage resulting from installation in portrait position is not covered by product warranty. (No Warranty)

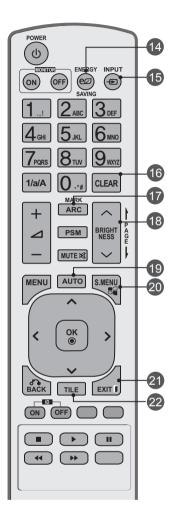
Using the Remote Control

Name of the Remote Control Buttons



- Power On / Off Button
 - Switches the set on from standby or off to standby.
- Monitor On / Off Button
 - Turn off the monitor and then turn it back on.
- Number and Alphabet Buttons
 - Type numbers.
 - It is not available to use Alphabet.
- 1/a/A Button
 - It is not available to use this function.
- Volume Up/Down Button
 - Adjusts the volume.
- R PSM Button
 - Selects the Picture Status Mode.
- MUTE Button
 - Switches the sound on or off.
- MENU Button
 - Selects a menu.
 - Clears all on-screen displays and returns to SET viewing from any menu.
- Up/Down/Left/Right Buttons
 - Allows you to navigate the on-screen menus and adjust the system settings to your preferenc.
- OK Button
 - Accepts your selection or displays the current mode.
- BACK button
 - Allows the user to move return one step in an interactive application.
- ID ON/OFF Button
 - When the number of input ID is equal to the number of ID Mode, you can control the monitor which you want in the multi display condition.
- **USB Menu control buttons**
 - Adjust the USB menu(Photo List, Music List and Movie List).

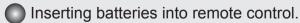
Using the Remote Control

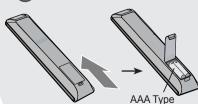


- 14 Energy Saving Button
 - Adjust the Energy Saving mode of the SET.
- INPUT Select Button
 If you press the button once, the following
 Input Signal Window will appear. Select the
 signal type you want using the < > button.



- Clear button
 - It is not available to use this function.
- ARC Button
 Selects the Aspect Ratio Mode
 - Selects the Aspect Ratio Mod
 - Brightness Key
 Adjust the brightness by pressing the Up and Down buttons on the remote control.
 - In USB mode, the OSD menu has the Page function to move to the next file list.
- 19 AUTO Button
 - Automatically adjusts picture position and minimizes image instability.(RGB input only)
- S.MENU Button (SuperSign Menu Key)
 It is not available to use this function.
- **EXIT Button**
 - Clears all on-screen displays and returns to monitor viewing from any menu.
- TILE button
 Selects the TILE Mode





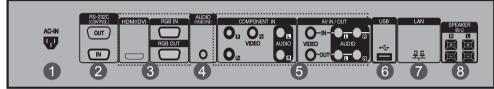
- 1. Slide off the battery cover.
- 2. Insert the batteries with correct polarity (+/-).
- 3. Close the battery cover.
- To remove the batteries, perform the installation actions in reverse.
- Dispose of used batteries in the recycle bin to prevent environmental pollution.

Name and Function of the Parts

* The product image in the user's guide could be different from the actual image.

Rear View





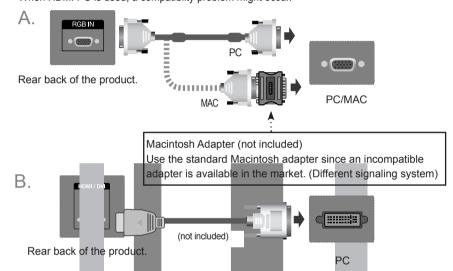
- Power Connector
 Connect the power cord
- RS-232C Serial Ports
- **RGB, HDMI/DVI Ports**HDMI Supports High Definition input and HDCP (High-bandwidth Digital Content Protection). Some devices require HDCP in order to display HD signals.
- PC Sound Jack Connect the audio cable to the *LINE OUT jack of the PC sound card.
- 6 Component, AV Ports
- 6 USB Port
- LAN Port
- 8 Speaker Ports

* LINE OUT

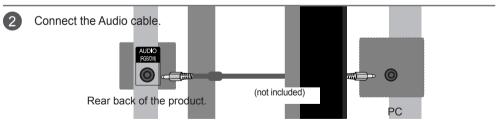
A terminal used to connect to the speaker including a built-in amplifier (Amp). Make sure that the connecting terminal of the PC sound card is checked before connecting. If the Audio Out of PC sound card has only Speaker Out, reduce the PC volume. If the Audio Out of the PC sound card supports both Speaker Out and Line Out, convert to Line Out using the card jumper of the program (Refer to the Sound Card Manual).

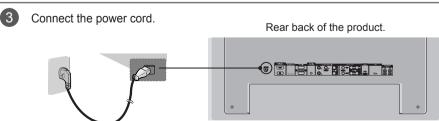
- When Connecting to your PC
- First of all, see if the computer, product and the peripherals are turned off. Then, connect the signal input cable.
 - A When connecting with the D-Sub signal input cable.
 - B. When connecting with the HDMI-DVI signal input cable (not included).

 * When HDMI PC is used, a compatibility problem might occur.



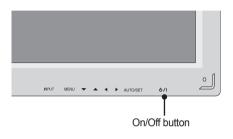
* User must use shielded signal interface cables (D-sub 15 pin cable, HDMI-DVI cable) with ferrite cores to maintain standard compliance for the product.



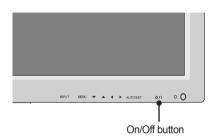


4 1. Turn on power by pressing the power button on the product.

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- 2. Turn on the PC.
- Select an input signal.
 Press the INPUT button on the remote control to select the input signal.



Or, press the **INPUT** button on the back of the product.

- A. When connecting with a D-Sub signal input cable.
 - Select RGB: 15-pin D-Sub analog signal.



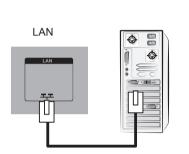
- B. When connecting with a HDMI-DVI signal input cable and HDMI Signal Cable.
 - Select HDMI/DVI: DVI Digital signal or HDMI Digital signal.



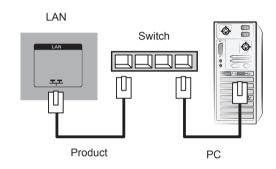


- How to connect to two computers.
 Connect the signal cables (HDMI-DVI and D-Sub) to each computer.
 Press the INPUT button on the remote control to select the computer to use.
- Directly connect to a grounded power outlet on the wall or a power bar with a ground wire.

- When using the LAN
- 1 Connect the LAN cable as shown in the below figure .
- A. Connect PC to Monitor directly.

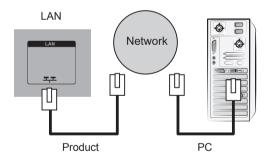


B. Using a router(Switch)



C. Using the Internet.

Product



PC

Connect the LAN cable and install the eZ-Net Manager program on the CD-ROM. For more information about the program, please refer to eZ-Net Guide in the enclosed CD-ROM.

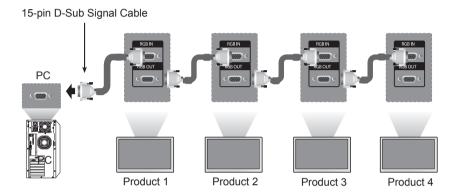


• Using LAN establishes communication between your PC and the monitor and enables to use the OSD menus on the PC as well as on the monitor.

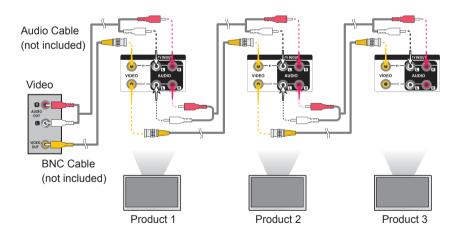
Daisy Chain Monitors

A. When using RGB input

To use different products connected to each other Connect one end of the signal input cable (15-pin D-Sub Signal Cable) to the RGB OUT connector of product 1 and connect the other end to the RGB IN connector of other products.



B. When using AV input

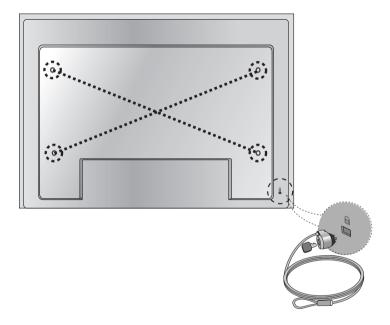




 The number of monitors that can be connected to one output may vary depending on signal status and cable loss. If the signal status is good, and there is no cable loss, it is possible to connect up to 9 monitors. If you want to connect more than this number of monitors, it is recommended to use a distributor.

VESA FDMI wall Mounting

This product supports a VESA FDMI compliant mounting interface. These mounts are purchased separately and not available from LG. Refer to the instructions included with wall mount for more info.



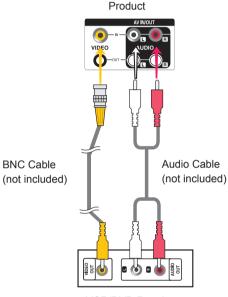
Kensington Security Slot
The Set is equipped with a kensington
Security System connector on the back
panel. The cable and lock are available
separate and are not sold by LG. For
more info, visit http://www.kensington.
com, the internet home page of the
Kensington company.

Video Input

Connect the video cable as shown in the below figure and then connect the power cord. (See page 11).

When connecting with a BNC cable.

• Connect the input terminal with a proper color match.



VCR/DVD Receiver

Select an input signal.

Press the INPUT button on the remote control to select the input signal.

$$\text{INPUT} \ \rightarrow \ < \ > \ \rightarrow \text{OK}$$

Or, press the **INPUT** button on the back of the product.

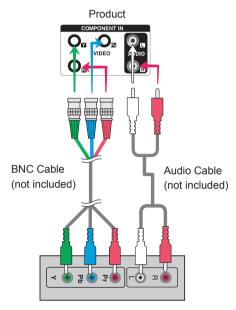
When connecting with an BNC cable.

· Select AV.



Component Input (480i/480p/576i/576p/720p/1080i/1080p)

- Connect the video/audio cable as shown in the below figure and then, connect the power cord (See page 11).
- Connect the input terminal with a proper color match.



HDTV Receiver

Note

- Some devices may require HDCP in order to display HD signals.
- Component doesn't support HDCP.



Select an input signal.

Press the INPUT button on the remote control to select the input signal.

INPUT
$$\rightarrow$$
 < > \rightarrow OK

Or, press the **INPUT** button on the back of the product.

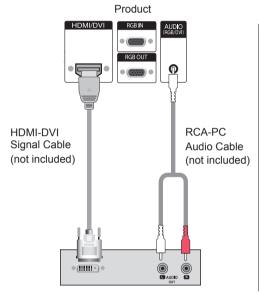
· Select Component.



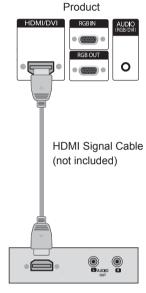
HDMI Input (480p/576p/720p/1080i/1080p)

HDMI Supports High Definition input and HDCP (High-bandwidth Digital Content Protection). Some devices require HDCP in order to display HD signals.

Connect the video/audio cable as shown in the below figure and then connect the power cord (See page 11).



VCR/DVD/Set-top Box



VCR/DVD/Set-top Box

Note: Dolby Digital is not supported.



Select an input signal.

Press the **INPUT** button on the remote control to select the input signal.

INPUT
$$\rightarrow$$
 < > \rightarrow OK

Or, press the INPUT button on the back of the product.

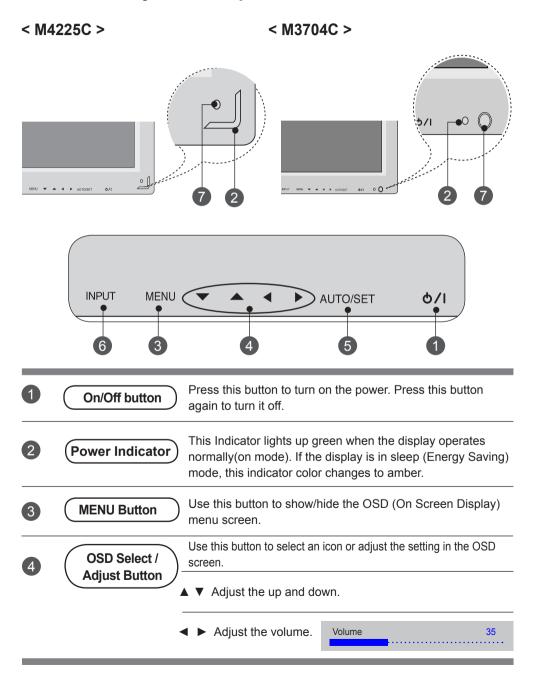


When connecting with a HDMI-DVI signal input cable. When connecting with a HDMI signal input cable.

Select HDMI/DVI



Screen Adjustment options



Screen Adjustment options

5 AUTO/SET Button (For Po

[For PC Analog signal]

Auto in progress For optimal display change resolution to 1920 x 1080

[When XGA Mode is active and 1920 x 1080 is selected]

Auto in progress

6 (INPUT Button

INPUT $\rightarrow \blacktriangleleft$ \blacktriangleright \rightarrow AUTO/SET

- Toggles between inputs

AV Composite Video **Component** HDTV, DVD

RGB 15-pin D-Sub analog signal

HDMI/DVI Digital signal



(IR Receiver) This is where the unit receives signals from the remote control.

OSD Menu

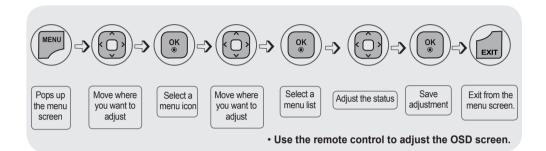
Icon	Function Description
Picture	Adjusts screen brightness, contrast and color that you prefer.
Audio	Adjusts the audio options.
Time	Adjusts the timer options.
Option	Adjusts the screen status according to the circumstances.
Tile	Adjusts the tile options.
USB	Adjusts the USB options.



OSD(On Screen Display)

• The OSD function enables you to adjust the screen status conveniently since it provides graphical presentation.

How to adjust the OSD (On Screen Display) screen



- Press the **MENU** Button, then the main menu of the OSD appears.
- To access a control, use the ∧ ∨ Buttons.
- When the icon you want becomes highlighted, press the **OK** Button.
- To access a control, use the ∧ ∨ Buttons.
- When the list you want becomes highlighted, press the **OK** Button.
- Use the $\land \lor < >$ Buttons to adjust the item to the desired level.
- 7 Accept the changes by pressing the **OK** Button.
- 8 Exit the OSD by pressing the **EXIT** Button.

How to adjust the screen automatically

Press the **AUTO/SET** button (**AUTO** button on a remote Control) in the PC analog signal. Then optimal screen settings will be selected that fit into the current mode. If adjustment is not satisfactory, you can adjust the screen manually.

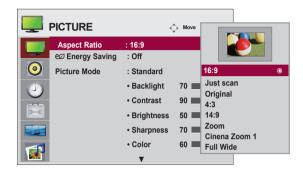
[When XGA Mode is active and 1920 x 1080 is selected]

Auto in progress



Adjusting Screen Color

Aspect Ratio



To select the image size of the screen.

16:9: Widescreen mode.

Just Scan: Allows you to enjoy the transmitted data fully without any images cut off.

(*This menu is activated only in 720p,1080p,1080i (HDMI/DVI-DTV, Component mode)

Original: The aspect ratio is not adjusted from the original. It is set by the program being watched.

4:3: This picture format is 4:3 aspect ratio.

1:1: The aspect ratio is not adjusted from the original. Used in PC mode. (Only HDMI/ DVI PC, RGB PC)

14:9: 14:9 programs are viewed normally in 14:9 with black bars added to the top and bottom.

4:3 programs are magnified on the top/bottom and left/right sides.

Zoom: 4:3 programs are magnified until they fill the 16:9 screen. The top and bottom will be cut off.

Cinena Zoom 1: Choose Cinema Zoom when you wish the picture to be altered, both horizontally extended and vertically cropped. The picture adopting a compromise between alteration and screen coverage.

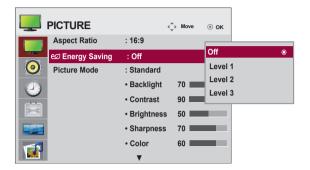
Full Wide: When SET receives the wide screen signal, it will lead you to adjust the picture horizontally or vertically, in a linear proportion, to fill the entire screen fully.

ARC MODE AV		Component	RGB HDMI / DVI		
		·	PC	DTV	PC
16:9	•	•	•	•	•
Just Scan	×	•	×	•	X
Original	•	X	X	X	X
4:3	•	•	•	•	•
1:1	×	×	•	X	•
14:9	•	•	×	•	X
Zoom	•	•	×	•	X
Cinema Zoom 1	•	•	X	•	X
Full Wide	•	X	×	×	X



Adjusting Screen Color

Energy Saving



This screen brightness adjusting menu helps you save energy.

Level: Total 4 screen brightness levels are provided.

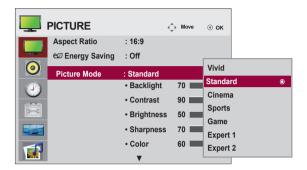
- Off: 100% light - Level 1: 80% light - Level 2: 60% light

- Level 3: 40% light



Adjusting Screen Color

Picture Mode



Toggles between screen presets.

Standard: The most general and natural screen display status.

Vivid: Select this option to display with a sharp image.

Cinema: Select this option to lower brightness by one level.

Sport: Select this option to display with a soft image. **Game**: To enjoy dynamic image when playing a game.

Expert1,2: Select this option to use the user-defined settings.

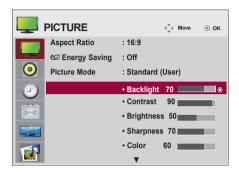


If the 'Picture Mode' setting in the Picture menu is set to Vivid, Standard, Cinema, **Sport** or **Game** the subsequent menus will be automatically set.



Adjusting Screen Color

Picture Mode



Backlight: To control the brightness of the screen, adjust the brightness of LCD panel.

Contrast: Adjust the difference between the light and dark levels in the picture.

Brightness: To adjust the brightness of the screen. (This function can be used only under

AV and Component.)

Sharpness: To adjust the clearness of the screen. (This function can be used only under

AV and Component.)

Color: To adjust the color to desired level. (This function can be used only under AV and

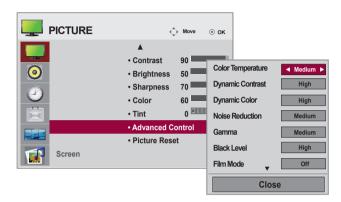
Component.)

Tint: To adjust the tint to desired level. (This function can be used only under AV and Component.)



Adjusting Screen Color

Advanced Control



Color Temperature: Color Settings Cool: Slightly purplish white. Medium: Slightly bluish white. Warm: Slightly reddish white.

Dynamic Contrast: Optimizes the contrast automatically according to the brightness of the reflection. (This function can be used only under AV and Component.)

Dynamic Color: Adjusts the Color of the reflection automatically to reproduce natural colurs as close as possible. (This function can be used only under AV and Component.)

Noise Reduction: Removing the noise up to the point where it does not damage the original picture. (This function can be used only under AV and Component.)

Gamma: Set your own gamma value.

On the monitor, high gamma values display whitish images and low gamma values display high contrast images.

Black Level: (Function works in the following mode - AV, Component, HDMI-DTV) adjusts the contrast and the brightness of the screen using the black level of the screen.

Low: The reflection of the screen gets darker.

High: The reflection of the screen gets brighter.

Film Mode: (Function works in the following mode - AV, Component 480i/576i/1080i, HDMI/DTV 480i/576i/1080i) When you watch a movie, this function adjusts the set to the best picture appearance.

White Balance: This is the function to adjust the overall colour of the screen to the feeling you want. (Function works in the following mode - Expert 1, Expert 2 Picture mode)

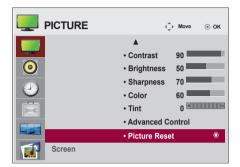
Color Management System:

As the tool used by the experts to make adjustments by using the test patterns, this does not affect other colours but can be used to selectively adjust the 6 colour areas (Red/Green/ Blue/Cyan/Magenta/Yellow). Colour difference may not be distinctive even when you make the adjustments for the general video. (Function works in the following mode - Expert 1, Expert 2 Picture mode)



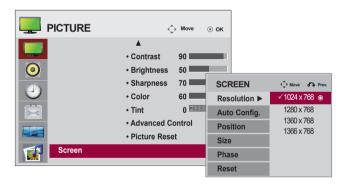
Adjusting Screen Color

Picture Reset



Return Picture Mode to the default factory settings.

Screen



Adjust the screen video.

Resolution: To view a normal picture, match the resolution of RGB mode and selection of PC mode. This function works in the following mode: RGB[PC] mode.

Auto Config. (RGB PC input only): This button is for the automatic adjustment of the screen position, clock and phase. This function is available for analog signals only.

Position: Moving the screen position.

Size: Adjust the size of the screen.

Phase: To adjust the focus of the display. This item allows you to remove any horizontal noise and clear or sharpen the image of characters. This function is available for analog signals only.

Reset: Return Manual config. to the default factory settings.



Adjusting the audio function





Auto Volume

To adjust uneven sound volumes across all channels or signals automatically to the most appropriate level. To use this feature, select On.

Clear Voice II

By differentiating the human sound range from others, it helps users listen to human voices better.

Balance

Use this function to balance sound from the left and right speakers.

Sound Mode

The best sound tone quality will be selected automatically depending on the video type that you're currently watching.

Standard: The most commanding and natural audio.

Music: Select this option to enjoy the original sound when listening to the music.

Cinema: Select this option to enjoy sublime sound. **Sport:** Select this option to watch sports broadcasting. **Game:** To enjoy dynamic sound when playing a game.

Speaker

You can adjust internal speaker status.

If you want to use your external hi-fi stereo system, turn off the internal speakers of the set.



Adjusting the timer function



Clock

If the current time is incorrect, reset the clock manually.

- 1) Press the **MENU** button and then use $\land \lor < >$ button to select the Time menu input OK button to enter.
- 2) Press the > button and then use $\land \lor$ button to select clock menu.
- 3) Press the > button and then use < > button to select date
- 4) Press the $\land \lor$ button and then use $\lt \gt$ button to set the hour(00h to 23h).
- 5) Press the \wedge \vee button and then use < > button to set the minutes(00 min to 59 min).

On/Off time

The off time automatically switches the set to standby at the pre-set time.

- 1) Press the **MENU** button and then use $\land \lor <>$ button to select the Time menu,input OK button to enter.
- 2) Press the > button and then use $\land \lor$ button to select On/Off Timer.
- 3) Press the > button and then use < > button to select date
- 4) Press the $\wedge \vee$ button and then use < > button to set the hour(00h to 23h).
- 5) Press the $\land \lor$ button and then use $\lt \gt$ button to set the minutes(00 min to 59 min).
- 6) Press the ∧ ∨ button ,According to the personal needs, choose to add button.

Sleep timer

The power is automatically turned off when the time set by a user is passed.

- 1) Press the **MENU** button and then use $\land \lor <>$ button to select the Time menu,input OK button to enter
- 2) Press the > button and then use $\land \lor$ button to select. Sleep timer menu.
- 3) Press the ∧ ∨ button and then use < > button to select the minutes(Off to 240 min).

Auto off

If Auto off is active and there is no input signal, the set switches to off mode automatically after 15 minutes.

- 1) Press the **MENU** button and then use $\land \lor < >$ button to select the Timer menu, input OK button to enter.
- 2) Press the > button and then use $\land \lor$ button to select the Auto off menu.
- 3) Press the > button and then use $\land \lor$ button to select On or Off.

Power on delay

When connecting multiple monitors and turning the power on, the monitors are turned on individually to prevent overload.

Automatic Standby

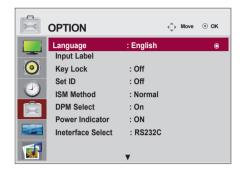
If you do not use the monitor for more than 4 hours, it will be in standby mode automatically.



- Once the on or off time is set, these functions operate daily at the preset time.
- The scheduled power-off function works properly only when the device time is set correctly.
 When the scheduled power-on and power-off times are the same, the power-off time has priority over the power-on time if the set is turned on, and vice versa if the set is turned off.
- · When On time is operated, input screen is turned on as it was turned off.
- The Automatic Standby function may not be available depending on the country.



Selecting the options



Language

To choose the language in which the control names are displayed.

Input Label

Selects a label for each input source. For example, when connecting to PC in RGB mode, * Select "PC" for the connecting device field.

Otherwise, the screen may not display properly.

Key Lock

Use the $\land \lor$ buttons to select **On** or **Off**. The monitor can be set up so that it can only be used with the remote control. This feature can prevent unauthorized viewing. In order to lock the OSD screen adjustment, set the **Key Lock** tab to the **'On'** position.

In order to unlock it, do the following:

Push the **MENU** button on the remote control and set **Key Lock** to the '**Off**' position.

Set ID

You can assign a unique **Set ID** NO (name assignment) to each product when several products are connected for display. Specify the number (1 to 99) using the <> button and exit. Use the assigned **Set ID** to individually control each product using the Product Control Program.

* If Set ID is set to Off, you cannot control RS-232C functions. To use RS-232C, Set ID must be set to a value other than Off.

ISM Method

Leaving a fixed image on the screen for a long time may cause damage to the screen and cause image burn-in. To use the product for a long period of time, use a screen saver on the PC or utilize the residual image prevention function on the product, and when the product is not used, turn off the power. Burn-in and related problems are not covered by the warranty on this product.

Normal: Leave on normal if you don't foresee image burn in being a problem.

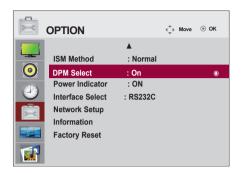
Orbiter: May help prevent ghost images. However, it is best not to allow any fixed image to remain on the screen. To avoid a permanent image on the screen, the screen will move every 2 minutes.

Inversion : This function inverts the panel color of the screen. The panel color is automatically inverted every 30 minutes.

White wash: White wash fills the screen with solid white. This helps removes permanent images burned into the screen. A permanent image may be impossible to clear entirely with white wash.



Selecting the options



DPM Select

A user can choose to turn the power saving mode on / off.

Power Indicator

Use this function to set the power indicator on the front side of the product to On or Off. If you set Off, i will go Off. If you set On at any time, the power indicator will automatically be turned on.

Ineterface Select

Sets up network connections.

- Network: LAN Enables communication via Ethernet.
- RS-232C: Enables communication via Serial.

Network Setup

- DHCP: Allocates and sets up IP automatically.
- Manual: Sets up IP address, Gateway, Subnet Mask, Primary DNS and Secondary DNS.
 The setup process is complete when you select Execute, and "IP Setup
 Completed" is displayed at the bottom of the screen. While "Wait for IP Setup" is displayed, you cannot use the local keys and remote control. "Wait for IP Setup" is displayed for up to 40 seconds.
- * If Network select is set to RS232C DHCP and Manual are disabled.

Information

You can find informations about Serial No, F/W version, IP Address and MAC Address.

Factory Reset

Select this option to return to the default factory settings.



Adjusts the tile options.

Tile Mode



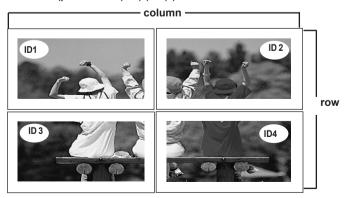
- Must be displayed with various other products.
- Must be in a function that can be connected to RS-232C or RGB Out.
- It is used to enlarge the screen and also used with several products to view screen.

Tile mode and choose Tile alignment and set the ID of the current product to set location. Only after pressing the SET button the adjustments made to the settings will be saved.

- Tile mode: column x row (c = 1, 2, 3, 4, 5 r = 1, 2, 3, 4, 5)
- 5 x 5 available.
- Configuration of an integration screen is also available as well as configuration of One by one Display.



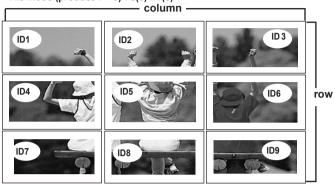
- Tile mode (product 1 ~ 4): c(2) x r(2)



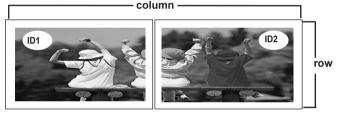


Adjusts the tile options.

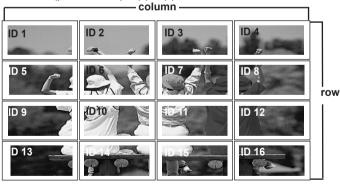
- Tile mode (product 1 ~ 9) : c(3) x r(3)



- Tile mode (product 1 ~ 2) : c(2) x r(1)



- Tile mode (product 1 ~16): c(4) x r(4)



Tile ID: Select the location of the Tile by setting an ID.

Natural: The image is omitted by the distance between the screens to be naturally shown. **H-Size**: Adjust the horizontal size of the screen taking into account the size of the bezel.

V-Size: Adjust the vertical size of the screen taking into account the size of the bezel.

H-Position: Moving the screen position horizontally. **V-Position**: Moving the screen position vertically.

Reset: Function to initialize and release Tile.

All Tile setting are released when selecting Tile recall and the screen returns to Full screen.



Adjusts the USB options.

When connecting the USB device

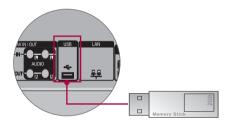
When you connect a USB device, this pop up menu is displayed, automatically.

"POP UP MENU" will not be displayed while the OSD including Menu, EPG or Schedule list is activated.

When the Pop Up menu appears, you can select Music List, Photo List or Movie List in the MY MEDIA menu.

In USB device, you can not add a new folder or delete the existing folder.

1. Connect the USB device to the USB jack on the SET.



2. Select PHOTO LIST, MUSIC LIST or MOVIE LIST.





Adjusts the USB options.

Precautions when using the USB device

- Only a USB storage device is recognizable.
- If the USB storage device is connected through a USB hub, the device is not recognizable.
- A USB storage device using an automatic recognition programme may not be recognized.
- A USB storage device which uses its own driver may not be recognized.
- The recognition speed of a USB storage device may depend on each device.
- Please do not turn off the TV or unplug the USB device when the connected USB storage device is working. When such device is suddenly separated or unplugged, the stored files or the USB storage device may be damaged.
- Please do not connect the USB storage device which was artificially maneuvered on the PC. The device may cause the product to malfunction or fail to be played. Never forget to use only a USB storage device which has normal music files or image files.
- Please use only a USB storage device which was formatted as a FAT16, FAT32, NTFS file system provided with the Windows operating system. In case of a storage device formatted as a different utility programme which is not supported by Windows, it may not be recognized. Data in a USB storage device cannot be deleted in the NTFS file system.
- Please connect power to a USB storage device which requires an external power supply. If not. the device may not be recognized.
- Please connect a USB storage device with cable is offered by USB maker. If connected with cable is not offered by USB maker or an excessively long cable, the device may not be recognized.
- Some USB storage devices may not be supported or operated smoothly.
- Maximum of 999 files and folders can be recognized.
- Data in a USB storage device cannot be aligned. Up to 128 English characters can be recognized as a file name.
- Please back up the important file because a data of USB device may be damaged. Data management is consumer's responsibility and in consequence the manufactures does not cover the product bearing data damage.
- If the USB is connected in Standby Mode, specific hard disk will automatically be loaded when the TV is turned on.
- · The recommended capacity is 1TB or less for a USB external hard disk and 32GB or less for USB memory.
- Any device with more than the recommended capacity may not work properly.
- If a USB external hard disk with a "Power Saving" function does not work, turn the hard disk off and on again to MAKE IT WORK PROPERLY.
- Names and subtitles of some language files may not display properly (Korean, Chinese, Japanese)
- When using Korean, Japanese or Chinese subtitles or file names, it is recommended to set the language to the corresponding one.



Adjusts the USB options.

Photo List

You can view photo files on USB storage device.

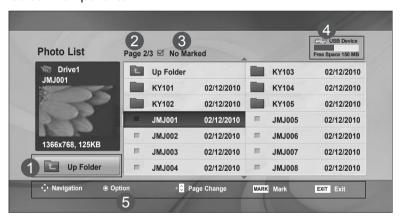
The On Screen Display may be different from your SET. Images are an example to assist with the SET operation.

PHOTO(* JPEG) supporting file

Baseline: 15360 x 8640 Progressive : 1024 x 768 • You can play JPEG files only.

• Non-supported files are displayed in the form of bitmap.

Screen Components



- Moves to upper level folder
- Current page / Total pages
- Total number of marked photos
- 4 Usable USB memory
- 6 Corresponding buttons on the remote control



Adjusts the USB options.

Photo Selection and PopUp Menu







View: Display the selected item.

Mark All: Mark all photos on the screen.
Unmark All: Deselect all marked photos.
Delete: Delete the selected photo item.

Close: Close the pop-up menu.



Adjusts the USB options.

How to view photo

Detailed operations are available on full-sized photo view screen.



The aspect ratio of a photo may change the size of the photo displayed on the screen in full size. Press the **EXIT** button to move to the previous menu screen.

▶ Slideshow

When no picture is selected, all photos in the current folder are displayed during slide show. If some photos are selected, those photos are displayed in a slide show.

· Set the time interval of the slide show in Option.

► BGM (Background Music)

Listen to music while viewing photos in full size.

• Set the Music Folder for BGM in Options before using this function.

▶ ບ (Rotate)

Rotate photos. Rotates the photo 90°, 180°, 270°, 360° clockwise.

▶ Delete

Delete photos.

▶ Option

Set values for SI ide Speed and Music Folder for BGM.

- Use AV<>> button and OK button to set values. Press OK to save the settings.
- You cannot change Music Folder while BGM is playing.

Hide

Hide the menu on the full-sized screen. To see the menu again on the full-sized screen, press **OK** button to display.

If you press the ARC key on the remote control after hiding the menu, you can toggle between normal and full screen mode.



Adjusts the USB options.

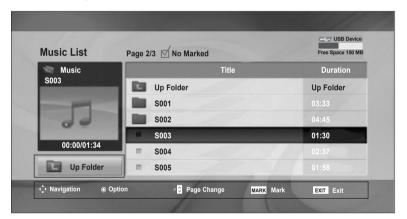
Music List

You can play music files on USB storage device.

Purchased music files(*.MP3) may contain copyright restrictions. Playback of these files may not be supported by this model. Music file on your USB device can be played by this unit. The On Screen Display may be different from your SET. Images are an example to assist with the SET operation.

MUSIC (*.MP3) supporting file
Bit rate 32 to 320kbps
• Sampling rate MPEG1 layer 3: 32 kHz, 44.1 kHz, 48 kHz.

Screen Components



- Moves to upper level folder
- Current page / Total pages
- 3 Total number of marked music title
- 4 Usable USB memory
- Corresponding buttons on the remote control



Adjusts the USB options.

Music Selection and PopUp Menu

As shown, up to 6 music titles are listed per page.







Play (During stop): Play the selected music titles.

One playback of a piece of music finishes, the next selected one will be played. When there are no selected music titles to play, the next one in the current folder will be played. If you go to a different folder and press the OK button, the current music in playback will stop.

Play Marked: Play the selected music titles. Once a music finishes playing, the next selected one will be played automatically.

Stop Play (During playback): Stop the playing music titles.

Play with Photo: Start playing the selected music titles and then move to the Photo List.

Mark All: Mark all music titles in the folder.
Unmark All: Deselect all marked music titles.

Delete: Delete the selected music titles.

Close: Close the pop-up menu.



Adjusts the USB options.

If you don't press any button for a while during the playing, the play information box (as shown in the below) will float as a screen saver.

The 'Screen Saver'?

Screen saver is to prevent screen pixel damage due to an fixed image remaining on the screen for a extended period of time.





- A damaged or corrupted music does not play but displays 00:00 in playtime.
- A music downloaded from a paid service with copyright protection does not start but displays inappropriate information in playtime.
- If you press OK, buttons, screen saver is stopped.
- The PLAY(►), Pause(II), ■, ►►, ◄ buttons on the remote control are also available in this mode.
- You can use the ►► button to select the next music and the ◀◀ button to select the previous music.



Adjusts the USB options.

Movie List

The movie list is activated once USB is detected. It is used when playing movie files on SET.

Displays the movies in the USB folder and supports Play.

Allows playback of all movies in the folder and user desired files.

Video editing is not supported but files can be deleted.

It is a movie list that displays folder information and DivX file.

Supports up to four drives.

MOVIE(*.avi/*.DivX) supporting file

Video format: MPEG1, MPEG2, MPEG4(Doesn't support Microsoft MPEG 4-V2, V3), DivX 3.xx, DivX

4.xx, DivX 5.xx, DivX VOD(DRM), XviD, DivX 6.xx(Playback)

Audio format : Mpeg, Mp3, PCM, Dolby Digital Sampling frequency : within 32k to 48 khz

Bit rate: 32k to 320 kbps

Subtitle format: *.smi/ *.srt/ *.sub(MicroDVD, SubViewer 2.0)/ *.ass/ *.ssa/*.txt(DVD Subtitle System)

- DivX may not be played depending on its types or recording methods.
- If the video and audio structure of recorded file is not interleaved, either video or audio is outputted.
- Maximum FPS (Frame Per Second) can be reached only at SD level. FPS is 25 FPS (720*576) or 30 FPS (720*480) depending on Resolution.
- · Max bitrate of playable DivX is 4Mbps.
- Files more than 25 FPS or 30 FPS or higher may not be played properly.
- A DivX movie file and its subtitle file must be located in the same folder.
- A video file name and its subtitle file name must be identical for it to be displayed.
- Playing a video via a USB connection that doesn't support high speed may not work properly.
- USB storage devices below USB 2.0 are supported as well. But they may not work properly in the movie list.
- Files encoded with GMC(Global Motion Compensation) may not be played.

Extension name	Video Decoder	Audio Codec	Max Resolution
mpg, mpeg, vob, dat	MPEG1, MPEG2	AC3,MPEG,MP3,PCM	720v576@25n
Avi, DivX, m4v	MPEG4-SP, MPEG4-ASP, DivX 3.xx, DivX 4.xx, DivX 5.xx DivX 6.xx(Playback), Xvid	AC3,MPEG,MP3,PCM	720x576@25p 720x480@30p



Adjusts the USB options.

Screen Components



- Moves to upper level folder
- Current page / Total pages
- 3 Total number of marked movie title
- 4 Usable USB memory
- 5 Corresponding buttons on the remote control



 Use the left/right (< / >) keys to move to a specific frame forward or backward while playing a movie. (The left/right (< / >) keys may not work properly for some files while playing a movie.)



Adjusts the USB options.

Movie Selection and PopUp Menu







Play : Play the selected movie. DivX Play is

executed while screen changes.

Mark All: Mark all Movie in the folder.
Unmark All: Deselect all marked movies.
Delete: Delete the selected Movie item.

Close: Close the pop-up menu.

Using the remote control

44 / >	When playing, repeatedly, press REW (\blacktriangleleft) to speed up \blacktriangleleft (x2) -> \blacktriangleleft (x4) -> \blacktriangleleft (x8) -> \blacktriangleleft (x16) -> \blacktriangleleft (x32). Repeatedly, press FF (\blacktriangleright) to speed up \blacktriangleright (x2)-> \blacktriangleright (x4) -> \blacktriangleright (x4) -> \blacktriangleright (x5) -> \blacktriangleright (x16) -> \blacktriangleright (x16) -> \blacktriangleright (x16) -> \blacktriangleright (x16) -> \blacktriangleright (x17) Pressing these buttons repeatedly increases the fast forward/reverse speed.
- 11	During playback, press Pause (II) and the still screen is displayed.
•	During playback, stops the screen.
•	Press Play(▶) to return to normal playback.



• In the case of files not supported, a message regarding non-supported file is displayed.



Adjusts the USB options.

When you select the Movie Option,





Picture Size : Sets to [Full] or [Original].

Subtitle Language: Allows to select the language you want for the file with multiple

subtitle tracks.

This option is not available if the file has only one subtitle track.

Audio Language: Allows to select the language you want for the file with multiple audio

tracks. This option is not available if the file has only one audio track.

Subtitle File: Sets to On or Off.

Language: Sets to one of Latin1, Latin2, Latin4, Latin5, Cyrillic, Greek, Hebrew,

Chinese and Korean.

Sync: Adjusts the subtitle delay from 0 and +5.0 in 0.5 second increments.

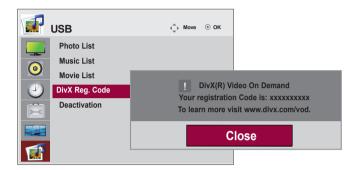
Position: Moves the subtitle position from 0 to 16.

* You can move the video back or forward by clicking < or > key.



Adjusts the USB options.

DivX Registration Code



Confirm the DivX registration code number of the SET. Using the registration number, movies can be rented or purchased at www.divx.com/vod.

With a DivX registration code from other SET, playback of rented or purchased DivX file is not allowed. (Only DivX files matched with the registration code of the purchased SET are playable.)



Supported movie file

Resolution: under 25 frames/sec(720x576 WxH pixels).

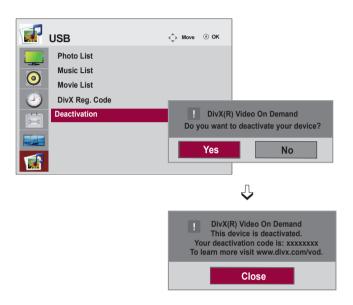
Frame rate: under 30 frames/sec(720x480)

- Video Codec: MPEG1, MPEG2, MPEG4(Doesn't support Microsoft MPEG4-V2, V3), DivX3.xx, DivX4.xx, DivX5.xx, , DivX VOD(DRM), XviD, DivX6.xx(Playback).
- When loading, some buttons may not work.



Adjusts the USB options.

Deactivation



The purpose of deactivation is to allow deactivation of devices for users who have activated all the available devices through the web_server and are blocked from activating more devices. DivX VOD allowed the consumer to activate up to 6 devices under one account, but to replace or deactivate any of those devices, the consumer had to contact DivX Support and request deletion. Now with this added feature, consumers will be able to deactivate the device themselves and hence better manage their DivX VOD devices.

Troubleshooting

No image is displayed

- Is the power cord connected?
- See if the power cord is properly connected to the outlet
- Is the power indicator light on?
- See if the power switch is turned on.
- · May need service.

<M4225C>

- Power is on, power indicator is Blue but the screen appears extremely dark. <M3704C>
- Power is on, power indicator is Green but the screen appears extremely dark.
- Is the power indicator amber?
- Does the 'Out of range' message appear?
- Does the 'Check signal cable'

- · Adjust brightness and contrast again.
- Backlight may need repair.
- If the set is in power saving mode, move the mouse or press any key.
- · Turn both devices off and then back on.
- · The signal from the PC (video card) is out of the vertical or horizontal frequency range of the set. Adjust the frequency range by referring to the specifications in this manual.

* Maximum Resolution RGB: 1920 x 1080 @ 60 Hz HDMI/DVI: 1920 x 1080 @ 60 Hz

- The signal cable between PC and set is not connected. Check the signal cable. message appear?
 - Press INPUT on the remote control to check the input signal.

UnknownProduct'messageappearswhentheproductisconnected.

- Did you install the driver?
- Install the product driver, which is provided with the product, or download it from the web site. (http://www.lg.com)
- See if the plug&play function is supported by referring to the video card user manual.

'Key Lock On' message appears.

- The 'Key Lock On' message appears when pressing the Menu button.
- The Lock function prevents the OSD settings from being changed inadvertently. To release the lock, go to Menu and Option and disable the Key Lock option.

Troubleshooting

The screen image looks abnormal.

- Is the screen position wrong?
- D-Sub analog signal Press the "AUTO" button in the remote control to automatically select the optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Position OSD menu.
- See if the video card resolution and frequency are supported by the product. If the frequency is out of range, set to the recommended resolution in the Control Panel "Display" Setting menu.
- Do thin lines appear on the background screen?
- D-Sub analog signal Press the "AUTO" button in the remote control to automatically select an optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Clock OSD menu.
- Horizontal noise appears or the characters look blurred.
- D-Sub analog signal Press the "AUTO" button in the remote control to automatically select an optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Phase OSD menu.
- The screen is displayed abnormally.
- The proper input signal is not connected to the signal port. Connect the signal cable that matches with the source input signal.

After-image appears on the product.

- After-image appears when the product is turned off.
- If you use a fixed image for a long time, the pixels may be damaged quickly. Use the screen-saver function.



- Vertical frequency: To enable the user to watch the product display, screen image should be changed tens of times every second like a fluorescent lamp. The vertical frequency or refresh rate is the times of image display per second. The unit is Hz.
- Horizontal frequency: The horizontal interval is the time to display one vertical line.
 When 1 is divided by the horizontal interval, the number of horizontal lines displayed every second can be tabulated as the horizontal frequency. The unit is kHz.

Troubleshooting

The audio function does not work.

No sound?

- See if the audio cable is connected properly.
- Adjust the volume.
- See if the sound is set properly.

Sound is too dull.

• Adjust the Clear Voice II, Treble and Bass appropriately.

. Sound is too low.

· Adjust the volume.

Screen color is abnormal.

- Screen has poor color resolution (16 colors).
- Set the number of colors to more than 24 bits (true color)
 Select Control Panel - Display - Settings - Color
- Screen color is unstable or monocolored.
- Check the connection status of the signal cable.
 Or. re-insert the PC video card.
- Do black spots appear on the screen?
- Several pixels (red, green, white or black color) may appear on the screen, which can be attributable to the unique characteristics of the LCD panel. It is not a malfunction of the LCD.

The operation does not work normally.

- The power suddenly turned off.
- Is the sleep timer set?

Table menu in Windows.

- Check the power control settings. Power interrupted.
- "CAUTION! FAN STOP!"

 If the power is turned off after this message appears, it means that the fan is out of order. In this case, contact your local service center.

< M4225C >

LCD Panel	42" class (42.0" diagonal) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Visible diagonal size : 106.73 cm 0.4845 mm x 0.4845 mm X RGB (Pixel Pitch)			
Power	Rated Voltage Power Consumption	On Mode Sleep Mode (If LAN OFF is	~ 50 / 60 Hz 2.3 A : 200 W Typ. : ≤ 1 W (RGB) / 1 W (HD selected) : ≤ 0.5 W	PMI/DVI)
Dimensions & Weight	[1]		[2]	
	[3]	+	[4]	+
	[2] 96.7 cm (38.07 inch) x [3] 96.7 cm (38.07 inch) x	63.5 cm (24.99 in 55.98 cm (22.03 i	inch) x 12.37 cm (4.87 inch) ch) x 25.86 cm (10.18 inch) inch) x 12.37 cm (4.87 inch) ch) x 25.86 cm (10.18 inch))
	Net [1] 18.64 kg (41.10 lb) [3] 19.38 kg (42.73 lb)		g (43.92 lb) g (45.55 lb)	



• The specifications shown above may be changed without prior notice for quality improvement.

< M3704C >

LCD Panel	37" class (37.0" diagonal) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Visible diagonal size : 94.0 cm 0.4845 mm x 0.4845 mm X RGB (Pixel Pitch)			
Power	Rated Voltage AC 100-240 V~ 50 / 60 Hz 1.9 A Power Consumption On Mode : 150 W Typ. Sleep Mode : ≤ 1 W (RGB) / 1 W (HDMI/DVI) (If LAN OFF is selected) Off Mode : ≤ 0.5 W			
Dimensions & Weight				
	Width x Height x Depth [1] 92.81 cm (36.54 inch) x 57.12 cm (22.49 inch) x 11.25 cm (4.43 inch) [2] 92.81 cm (36.54 inch) x 60.81 cm (23.94 inch) x 30.19 cm (11.88 inch) [3] 92.81 cm (36.54 inch) x 57.12 cm (22.49 inch) x 11.25 cm (4.43 inch) [4] 92.81 cm (36.54 inch) x 60.81 cm (23.94 inch) x 30.19 cm (11.88 inch)			
	Net [1] 17.86 kg (39.37 lb) [2] 18.66 kg (41.13 lb) [3] 18.64 kg (41.09 lb) [4] 19.44 kg (42.85 lb)			



• The specifications shown above may be changed without prior notice for quality improvement.

Video Signal	Max. Resolution	RGB: 1920 x 1080 @ 60 Hz
Ü		HDMI/DVI: 1920 x 1080 @ 60 Hz
		- It may not be supported depending on the OS or video card type.
	Recommended Resolution	RGB: 1920 x 1080 @ 60 Hz
		HDMI/DVI: 1920 x 1080 @ 60 Hz
		- It may not be supported depending on the OS or video card type.
	Horizontal Frequency	RGB: 30 kHz to 83 kHz
		HDMI/DVI: 30 kHz to 83 kHz
	Vertical Frequency	RGB : 56 Hz to 75 Hz
		HDMI/DVI : 56 Hz to 60 Hz
	Synchronization Type	Composite/Separate/Digital
Input Connector		15-pin D-Sub type, HDMI/DVI(digital)
·		Composite Video, Component, RS-232C, LAN, USB
Environmental	Operational Condition	Temperature: 0 °C to 40 °C, Humidity: 10 % to 80 %
Conditions	Storage Condition	Temperature : -20 $^{\circ}\text{C}$ to 60 $^{\circ}\text{C}$, Humidity : 5 $\%$ to 95 $\%$

Applicable only for models that support the speakers

	RMS Audio Output	10 W + 10 W (R + L)
Audio	Input Sensitivity	0.7 Vrms
	Speaker Impedance	8 Ω



 The specifications shown above may be changed without prior notice for quality improvement.

PC Mode - Preset Mode

F	Preset mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	F	Preset mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
1 2 *3 4 *5 6 7 *8 9	640 x 350 720 x 400 640 x 480 640 x 480 800 x 600 800 x 600 832 x 624 1024 x 768 1024 x 768 1280 x 720	31.469 31.468 31.469 37.5 37.879 46.875 49.725 48.363 60.123 44.772	70.8 70.8 59.94 75 60.317 75 74.55 60 75.029 59.855	*11 *12 *13 *14 15 *16 *17	1280 x 768 1360 x 768 1366 x 768 1280 x 1024 1280 x 1024 1680 x 1050 1920 x 1080	47.7 47.72 47.7 63.981 79.98 65.290 67.5	60 59.799 60 60.02 75.02 59.954 60

1 to 17: RGB Mode
*: HDMI/DVI mode

DTV Mode

	Component	HDMI/DVI(DTV)
480i	0	x
576i	0	x
480p	0	o
576p	0	o
720p	0	o
1080i	0	o
1080p	0	0

Power Indicator

< M4225C >

Mode	Product
On Mode	Blue
Sleep Mode	Amber
Off Mode	-

< M3704C >

Mode	Product
On Mode	Green
Sleep Mode	Amber
Off Mode	-



• DTV/PC selection on HDMI/DVI inputs is available for PC resolutions : 640 x 480/60 Hz, 1280 x 720/60 Hz, 1920 x 1080/60 Hz and DTV resolutions : 480p, 720p, 1080p.

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.

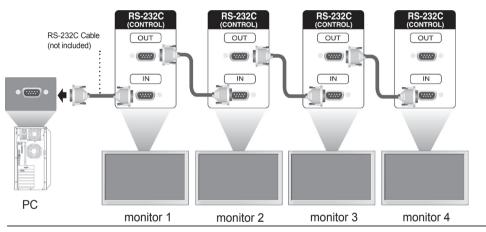
If the [Set ID] menu in [Option] is set to OFF, the monitor ID value should be set between 1 and 99.

Connecting the cable

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

You need to purchase a cable to connect the RS-232C socket as it is not provided as the accessory.

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 Co	7-Wire Configurations (Standard RS-232C cable)					
	PC	Monitor				
RXD TXD GND DTR DSR RTS CTS	2	3 2 5 6 4 8 7	TXD RXD GND DSR DTR CTS RTS			
	D-Sub 9 (Female)	D-Sub 9 (Female)				

3-Wire Configurations (Not Standard)					
	PC	Monitor			
RXD TXD GND DTR DSR RTS CTS	2 •————————————————————————————————————	3 2 5 6 4 7 8	TXD RXD GND DTR DSR RTS CTS		
	D-Sub 9 (Female)	D-Sub 9 (Female)			

Communication Parameter

► Baud Rate: 9600 buad Rate (UART)

Data Length: 8 bit
Parity Bit: None
Stop Bit: 1bit
Flow Control: None

Communication Code : ASCII codeUse a crossed (reverse) cable

Controlling the Multiple Product

Command Reference List

	COMMAND 1	COMMAND 2	DATA1	DATA2	DATA3
01. Power	k	a	00H to 01H		
02. Aspect Ratio	k	С	01H to 1FH		
03, Screen Mute	k	d	00H to 01H		
04. Volume Mute	k	e	00H to 01H		
05. Volume Control	l k	f	00H to 64H		
06. Contrast	k	g	00H to 64H		
07. Brightness	k	ň	00H to 64H		
08. Color	k	i	00H to 64H		
09. Tint	l k	i	00H to 64H		
10. Sharpness	k	k	00H to 64H		
11. OSD Select	l k	Ï	00H to 01H		
12. Remote Lock/ key Lock	k	m	00H to 01H		
13. Balance	k	t	00H to 64H		
14. Color Temperature	k	u	00H to 02H		
15. Abnomal state	k	Z	FFH		
16. ISM mode	j	p	01H to 08H		
17. Auto configuration	l j	u u	01H		
18. Key	l m	C	Key Code		
19. Tile Mode	d d	d	00H to 55H		
20. Tile H Position	l ď	e	00H to 14H		
21. Tile V Position	l ă	f	00H to 14H		
22. Tile H Size	l d	g	00H to 64H		
23. Tile V Size	l ď	h	00H to 64H		
24. Tile ID Set	l ď	ï	00H to 19H		
25. Natural Mode (In Tile mode	ď	j	00H to 01H		
26. Picture mode(PSM)	ď	X	00H to 06H		
27. Sound mode	l ă	y	01H to 05H		
28. Fan Fault check	ď	W	FFH		
29. Elapsed time return	ď	ï	FFH		
30. Temperature value	l ď	n n	FFH		
31. Lamp fault check	ď	p	FFH		
32. Auto Volume	ď	u U	00H to 01H		
33. Speaker	ď	v	00H to 01H		
34. Time	f	a	00H to 06H	00H to 17H	00H to 3BH
35. On Timer (On/Off Timer) Time	f	d d	F1H to F4H	00H to 17H	00H to 3BH
33. On time (On/On time) time	'	u	EOH to E4H	0011 to 1711	0011 to 0011
			01H to 80H		
36. Off Timer (On/zOff Timer) Time	f	е	F1H to F4H	00H to 17H	00H to 3BH
Ju. On thine (On/2011 timer) time	'	Ü	EOH to E4H	0011 10 1711	וועט טוו וועט
			01H to 80H		
			0111 10 0011		

Controlling the Multiple Product

	COMMAND 1	COMMAND 2	DATA1	DATA2	DATA3
37. Scheduling input select 38. Sleep Time 39. Auto Sleep 40. Power On Delay 41. Language 42. DPM Select 43. Reset 44. Power Saving 45. Power Indicator 46. Serial no. 47. S / W Version 48. Input Select	f f f f f f f x	u f g h i j k l o y z b	F1H to F4H 00H to 08H 00H to 01H 00H to 09H 00H to 01H 00H to 02H 00H to 03H 00H to 01H FFH FFH 20H to A0H	02H to 09H	

Controlling the Multiple Product



Transmission / Receiving Protocol

Transmission

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

- * [Command 1]: First command. (k, j, m, d, f, x)
- * [Command 2]: Second command.(a to u)
- * [Set ID]: Set up the Set ID number of product. range: 01H to 63H. by setting '0', server can control all products.
- * In case of operating with more than 2 sets using set ID as '0' at the same time, it should not be checked the ack message. Because all sets will send the ack message, so it's impossible the check the whole 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 data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer.

Error Acknowledgement

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

* If there is error, it returns NG

Controlling the Multiple Product



Transmission / Receiving Protocol

01. Power(Command: ka)

► 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]

<u>Acknowledgement</u>

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

Data 0: Power Off

1: Power On

Controlling the Multiple Product

Transmission / Receiving Protocol

- 02. Aspect Ratio(Command: kc) (Main picture format)
- ▶ To adjust the screen format.

You can also adjust the screen format using the ARC (Aspect Ratio Control) button on remote control or in the Screen menu.

Transmission

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

- Data 1: Normal Screen (4:3)
 - 2: Wide Scran (16:9)
 - 4 : Zoom (AV,Component,HDMI-DTV)
 - 6: Original (AV)
 - 7:14:9 (AV,Component,HDMI-DTV)
 - 9 : Just Scan (Component (HD DTV), HDMI-DTV (HD DTV))
 - * 1:1 (RGB, HDMI-PC)
 - 10 to 1F: Cinema Zoom 1 to 16 (AV,Component,HDMI-DTV)
 - B: Full Wide (AV)

<u>Acknowledgement</u>

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

- 03. Screen Mute(Command: kd)
- ► To select screen mute on / off.

Transmission

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

Data 0 : Screen mute off (Picture on)

1: Screen mute on (Picture off)

<u>Acknowledgement</u>

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

Controlling the Multiple Product



Transmission / Receiving Protocol

- 04. Volume Mute(Command: ke)
- ► To control On/Off of the Volume Mute.

Transmission

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

- Data 0 : Volume Mute On (Volume Off)
 - 1: Volume Mute Off (Volume On)

<u>Acknowledgement</u>

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

Data 0 : Volume Mute On (Volume Off)

1 : Volume Mute Off (Volume On)

05. Volume Control(Command: kf)

► To adjust Volume

Transmission

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

Data Min: 00H to Max: 64H (Hexadecimal code)

<u>Acknowledgement</u>

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

Data Min: 00H to Max: 64H

* Real Data Mapping

0 : STEP 0

A : STEP 10

F: STEP 15 10: STEP 16

64: STEP 100

Controlling the Multiple Product



Transmission / Receiving Protocol

06. Contrast(Command: kg)

► To adjust screen contrast.

You can also adjust the contrast in the Picture menu.

Transmission

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

Data Min: 00H to Max: 64H

<u>Acknowledgement</u>

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

07. Brightness(Command: kh)

► To adjust screen brightness. You can also adjust the brightness in the Picture menu.

Transmission

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

Data Min: 00H to Max: 64H

<u>Acknowledgement</u>

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

^{*} Refer to 'Real data mapping' page A7.

^{*} Refer to 'Real data mapping' as shown below.

^{*} Refer to 'Real data mapping' page A7.

Controlling the Multiple Product

Transmission / Receiving Protocol

08. Color(Command: ki) (Video Timing only)

► To adjust the screen color.

You can also adjust the color in the Picture menu.

Transmission

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

Data Min: 00H to Max: 64H

(Hexadecimal code)
* Refer to 'Real data mapping' page A7.

Acknowledgement

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

Data Min: 00H to Max: 64H

09. Tint(Command: kj) (Video Timing only)

► To adjust the screen tint.

You can also adjust the tint in the Picture menu.

Transmission

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

Data Red: 00H to Green: 64H

(Hexadecimal code)

* Refer to 'Real data mapping' page A7.

Acknowledgement

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

Data Red: 00H to Green: 64H

* Tint Real data mapping

0 : Step 0 to Red

:

64: Step 100 to Green

Controlling the Multiple Product



- 10. Sharpness(Command: kk) (Video Timing only)
- ► To adjust the screen Sharpness.
 You can also adjust the sharpness in the Picture menu.

Transmission

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

Data Min: 00H to Max: 64H

(Hexadecimal code)

* Refer to 'Real data mapping' page A7.

Acknowledgement

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

Data Min: 00H to Max: 64H

11. OSD Select(Command: k l)

► To control OSD on/off to the set.

Transmission

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

Data 0 : OSD Off 1 : OSD On

<u>Acknowledgement</u>

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

Data 0 : OSD Off 1 : OSD On

- 12. Remote Lock /Key Lock (Command: k m)
- ► To control Remote Lock on/off to the set.

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

Transmission

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

Data 0 : Off 1 : On

<u>Acknowledgement</u>

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

Data 0 : Off 1 : On

Controlling the Multiple Product

Transmission / Receiving Protocol

- 13 Balance(Command: kt)
- ► 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

<u>Acknowledgement</u>

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

Data Min: 00H to Max: 64H

00H: Step 0 to L50 64H: Step 100 to R50 * Balance: L50 to R50

- 14. Color Temperature (Command: ku)
- ► To adjust the screen color temperature.

Transmission

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

Data 0 : Medium

1: Cool

2: Warm

<u>Acknowledgement</u>

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

Data 0 : Medium

1 : Cool

2: Warm

Controlling the Multiple Product



Transmission / Receiving Protocol

15. Abnormal state (Command: kz)

▶ 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]

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

16. ISM mode(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

8H: Normal

<u>Acknowledgement</u>

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

Controlling the Multiple Product

Transmission / Receiving Protocol

- 17. Auto Configure(Command: j u)
- ► To adjust picture position and minimize image shaking automatically. it works only in RGB(PC) mode.

Transmission

[i][u][][Set ID][][Data][Cr]

Data 1 : To set

<u>Acknowledgement</u>

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

18. Key(Command: m c)

► To send IR remote key code.

Transmission

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

Data Key code: Refer to page A 32.

<u>Acknowledgement</u>

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

Controlling the Multiple Product



Transmission / Receiving Protocol

19. Tile Mode(Command : d d)

► Change a Tile Mode.

Transmission

[d][d][1[Qat	ID][1fn	ata l	[~]
Lalfalf	յլծեւ	ונטו	JLυ	alaj	LXJ

Data	Description
00 or 11	Tile mode is off.
12	1 x 2 mode(column x row)
13	1 x 3 mode
14	1 x 4 mode
55	5 x 5 mode

^{*} The data can not be set to 0X or X0 except 00.

Acknowledgement

[d][][00][][OK/NG][Data][x]	
-------------------------------	--

Controlling the Multiple Product

Transmission / Receiving Protocol

20. Tile H Position(Command : d e) ► To set the Horizontal position.

Transmission

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

Data Min: 00H to Max: 14H

00H : Step -10(Left) 14H: Step 10(Right) Acknowledgement

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

21. Tile V Position(Command: df)

► To set the Vertical position.

Transmission

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

Min: 00H to Max: 14H Data

00H : Step -10(Left) 14H: Step 10(Right)

Acknowledgement

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

Controlling the Multiple Product



Transmission / Receiving Protocol

22. Tile H Size(Command: dg)

► To set the Horizontal size.

Transmission

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

Min: 00H to Max: 64H Data

* Refer to 'Real data mapping' page A7.

<u>Acknowledgement</u>

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

23. Tile V Size(Command: dh)

► To set the Vertical size.

Transmission

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

Data Min: 00H to Max: 64H

* Refer to 'Real data mapping' page A7

Acknowledgement

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

Controlling the Multiple Product

Transmission / Receiving Protocol

24. Tile ID Set(Command: di)

► To assign the Tile ID for Tiling function .

Transmission

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

Min: 00H to Max: 19H Data

(Hexadecimal code)

Acknowledgement

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

25. Natural Mode (In Tile mode) (Command: dj)

▶ To assign the Tile Natural mode for Tiling function .

Transmission

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

Data 0 : Natural Off

1 : Natural On ff: Read Status

<u>Acknowledgement</u>

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

26. 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
03	Sport
04	Game
05	Export 1
06	Export 2

<u>Acknowledgement</u>

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

Controlling the Multiple Product



Transmission / Receiving Protocol

27. Sound Mode (Command: d v)

► To adjust the Sound mode.

Transmission

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

Data Structure

Data(Hex)	Mode
01	Standard
02	Music
03	Cinema
04	sport
05	Game

Acknowledgement

[y][][Set ID][][OK/NG][Data][)	x1	Т	1	a	a	t	1	â)	ľ	I	1	3	l	١	/	ĺ	k	0	ſ	1	II)	D	Ī	t	Se	S	1	1	v	ſ			
--------------------------------	----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----	---	---	---	---	----	---	---	---	---	---	--	--	--

28. Fan Fault check (Command: dw)

▶ To check the Fan fault of the TV.

Transmission

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

* The data is always FF(in Hex).

Data ff: Read Status

<u>Acknowledgement</u>

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

* Data is the status value of the Fan fault.

Data 0: Fan fault

1: Fan OK

2: N/A(Not Avaliable)

Controlling the Multiple Product



Transmission / Receiving Protocol

- 29. Elapsed time return(Command: d l)
- ► To read the elapsed time.

Transmission

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

* The data is always FF(in Hex).

Acknowledgement

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

* The data means used hours. (Hexadecimal code)

- 30. Temperature value (Command : d n)
- ► To read the inside temperature value.

Transmission

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

* The data is always FF(in Hex).

Acknowledgement

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

- * The data is 1 byte long in Hexadecimal.
- 31. Lamp fault Check(Command : d p)
- ► To check lamp fault.

Transmission

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

* The data is always FF(in Hex).

<u>Acknowledgement</u>

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

Data 0 : Lamp Fault

1: Lamp OK

2: N/A(DPM/Power Off)

Controlling the Multiple Product

Transmission / Receiving Protocol

- 32. Auto volume (Command: du)
- ► Automatically adjust the volume level.

Transmission

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

Data 0 : Off 1 : On

Acknowledgement

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

33. Speaker (Command : d v)

► Turn the speaker on or off.

Transmission

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

Data 0 : Off 1 : On

<u>Acknowledgement</u>

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

Controlling the Multiple Product

Transmission / Receiving Protocol

34. Time (Command: fa)

▶ Set the current time.

Transmission

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

[Data1]

0 : Monday

1 : Tuesday

2: Wednesday

3: Thursday

4: Friday

5 : Saturday

6: Sunday

[Data2]

0H to 17H (Hours)

[Data3]

00H to 3BH (Minutes)

<u>Acknowledgement</u>

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

*When reading data, FFH is inputted for [Data1], [Data2] and [Data3]. In other cases, all are treated as NG.

Controlling the Multiple Product

Transmission / Receiving Protocol

35. On Timer (On/Off Timer) Time (Command: fd)

► Set On Timer.

Transmission

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

[Data1]

1. f1h to f4h(read one index)

f1: read 1st index of On Time List.

f2: read 2nd index of On Time List

f3: read 3rd index of On Time List

f4: read 4th index of On Time List

2. e1h~e4h(delete one index), e0h(delete all indexes)

e0: delete all indexes of On Time List

e1: delete 1st index of On Time List

e2: delete 2nd index of On Time List

e3: delete 3rd index of On Time List

e4: delete 4th index of On Time List

3. 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): Everyday

(1fh): Monday to Friday

(3fh): Monday to Saturday

(60h): Saturday to Sunday

[Data 2]

00h to 17h (Hours)

[Data 3]

00h to 3bh (Minutes)

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

(ex1: fd 01 f1 ff ff - when you read 1st index of On Time List

ex2: fd 01 e1 ff ff - when you delete 1st index of On Time List

ex3: fd 01 3f 02 03 - when you write one On Time Data, "Monday to Saturday, 02:03"

Acknowledgement

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



Controlling the Multiple Product

Transmission / Receiving Protocol

36. Off Timer (On/Off Timer) Time (Command: fe)

► Set Off Timer

Transmission

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

```
[Data 1]
```

- 1. f1h to f4h(read one index)
- f1: read 1st index of Off Time List,
- f2: read 2nd index of Off Time List
- f3: read 3rd index of Off Time List
- f4: read 4th index of Off Time List
- 2. e1h to e4h(delete one index), e0h(delete all indexes)
- e0: delete all indexes of Off Time List
- e1: delete 1st index of Off Time List
- e2: delete 2nd index of Off Time List
- e3: delete 3rd index of Off Time List
- e4: delete 4th index of Off Time List
- 3. 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): Everyday
 - (1fh): Monday to Friday
 - (3fh): Monday to Saturday
 - (60h): Saturday to Sunday

[Data 2]

00h to 17h (Hours)

[Data 3]

00h to 3bh (Minutes)

- *When you read/delete the current on time list, all of [Data2][Data3] are have to be FFH.
- (ex1: fd 01 f1 ff ff when you read 1st index of Off Time List
- ex2: fd 01 e1 ff ff when you delete 1st index of Off Time List
- ex3: fd 01 3f 02 03 when you write one Off Time Data, "Monday to Saturday, 02:03")

Acknowledgement

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

Controlling the Multiple Product



37. Scheduling Input select (Command: fu) (Main Picture Input)

► To select input source for TV depending on day.

Transmission

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

[Data 1]

1. f1h to f4h(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 2] Input

Data(Hex)	INPUT
02	AV
04	Component
07	RGB - PC
08	HDMI/DVI – HD-DVD
09	HDMI/DVI – PC

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

(ex1: fu 01 f1 ff - when you read 1st index of On Time Input

ex2: fu 01 f3 02 - when you write one On Time Input Data in to 3rd index, "AV")

<u>Acknowledgement</u>

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

Controlling the Multiple Product

Transmission / Receiving Protocol

38. Sleep Time (Command: ff)

► Set Sleep Time.

Transmission

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

Data

0: Off

1:10

2:20

3:30

4:60

5:90

6:120

7:180

8:240

<u>Acknowledgement</u>

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

39. Auto Sleep (Command: fg)

► Set Auto Sleep.

Transmission

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

Data 0 : Off 1: On

Acknowledgement

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

Controlling the Multiple Product



Transmission / Receiving Protocol

- 40. Power On Delay (Command: fh)
- ▶ Set the schedule delay when the power is turned on (Unit: second).

Transmission

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

Data: 00H to 64H (Data value)

* Refer to 'Real data mapping' page A7

Acknowledgement

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

- 41. Language (Command: fi)
- ► Set the OSD language.

Transmission

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

Data

- 0: English
- 1 : French
- 2: German
- 3: Spanish
- 4 : Italian
- 5 : Portuguese
- 6: Chinese
- 7: Japanese
- 8 : Korean
- 9: Russian

<u>Acknowledgemen</u>

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

Controlling the Multiple Product



Transmission / Receiving Protocol

42. DPM Select (Command: fj)

▶ Set the DPM (Display Power Management) function.

Transmission

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

Data 0 : Off 1: On

Acknowledgement

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

- 43. Reset (Command: fk)
- ▶ Execute the Picture, Screen and Factory Reset functions.

Transmission

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

Data

0 : Picture Reset1 : Screen Reset2 : Factory Reset

<u>Acknowledgement</u>

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

Controlling the Multiple Product



Transmission / Receiving Protocol

- 44. Power saving(Command: f I)
- ► To set the Power saving mode.

Transmission

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

Data 0: Off

- 1: (static level 1)
- 2: (static level 2)
- 3: (static level 3)

Acknowledgement

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

45. Power Indicator (Command: fo)

► To set the LED for Power Indicator

Transmission

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

Data 0 : Off

1: On

<u>Acknowledgement</u>

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

Controlling the Multiple Product



46. Serial no.Check (Command: fy)

▶ To read the serial numbers

Transmission

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

Data FF (to read the serial numbers)

Acknowledgement

[y][][Set ID][][OK/NG][Data1] ~ [Data13] [x]

* The data format is ASCII Code.

Controlling the Multiple Product



47. S/W Version (Command: fz)

► Check the software version.

Transmission

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

Data FFH: Read

<u>Acknowledgement</u>

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

48. Input Select (Command: x b)

► To select input source for the Set.

Transmission

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

Data 20H: AV

40H: Component 60H: RGB (PC) 90H: HDMI/DVI (DTV) A0H: HDMI/DVI (PC)

<u>Acknowledgement</u>

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

Data 20H: AV

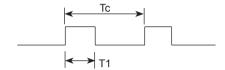
40H: Component 60H: RGB (PC) 90H: HDMI/DVI (DTV) A0H: HDMI/DVI (PC)

IR Codes

Remote Control IR Code

Output waveform

single pulse, modulated with 37.917kHz signal at 455kHz



Carrier frequency

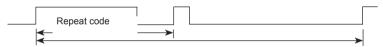
FCAR = 1 / Tc = fosc / 12 Duty ratio = T1 / Tc = 1 / 3

► Configuration of frame

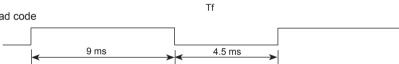
1st frame

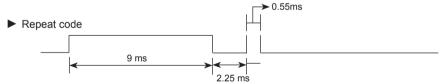
Lead code	Low custom code					High custom code								Data code						Data code												
	C0	C1	C2	СЗ	C4	C5	C6	C7	C0	C1	C2	СЗ	C4	C5	C6	С7	D0	D1	D2	D3	D4	D5	D6	D7	D0	D1	D2	D3	D4	D5	D6 E	07

· Repeat frame

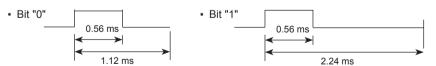


► Lead code

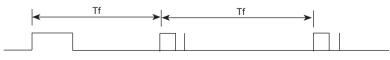




► Bit description



- Frame interval: Tf
- The waveform is transmitted as long as a key is depressed.



Tf = 108 ms @ 455 kHz

IR Codes

Code(Hex)	Function	Note
40	UP(∧)	R/C Button
41	DOWN(v)	R/C Button
06	RIGHT(>)	R/C Button
07	LEFT(<)	R/C Button
08	POWER ON/OFF	R/C Button
C4	MONITOR ON	R/C Button
		(Discrete IR Code)
C5	MONITOR OFF	R/C Button
		(Discrete IR Code)
09	MUTE	R/C Button
95	Energy Saving	R/C Button
0B	INPUT	R/C Button
43	MENU	R/C Button
5B	EXIT	R/C Button
4D	PSM	R/C Button
44	OK	R/C Button
10	Number Key 0	R/C Button
11	Number Key 1	R/C Button
12	Number Key 2	R/C Button
13	Number Key 3	R/C Button
14	Number Key 4	R/C Button
15	Number Key 5	R/C Button
16	Number Key 6	R/C Button
17	Number Key 7	R/C Button
18	Number Key 8	R/C Button
19	Number Key 9	R/C Button
79	ARC(MARK)	R/C Button
		(Discrete IR Code)
02	Vol+	R/C Button
03	Vol-	R/C Button

IR Codes

Code(Hex)	Function	Note
E0	Bright∧(Page UP)	R/C Button
E1	Bright∨(Page Down)	R/C Button
28	BACK	R/C Button
99	AUTO CONFIC	R/C Button
		(Discrete IR Code)
72	ID ON(Red Color)	R/C Button
71	ID OFF(Green Color)	R/C Button
63	(Yellow Color)	R/C Button
61	(Blue Color)	R/C Button
7B	TILE	R/C Button
В0	>	R/C Button
B1	•	R/C Button
BA	II	R/C Button
8F	◄ ◀	R/C Button
8E	>	R/C Button
5A	AV	Discrete IR Code
		(Input AV Selection)
BF	COMPONENT	Discrete IR Code(Input
		COMPONENT Selection)
D5	RGB PC	Discrete IR Code
		(Input RGB PC Selection)
C6	HDMI/DVI	Discrete IR Code
		(Input HDIMI/DVI Selection)
76	ARC (4:3)	Discrete IR Code
		(Only 4:3 mode)
77	ARC (16:9)	Discrete IR Code
		(Only 16:9 mode)
AF	ARC (ZOOM)	Discrete IR Code
		(Only ZOOM, Cinena ZOOM 1 mode)

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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	

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



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.

CHILD SAFETY:

It Makes A Difference How and Where You Use Your Flat Panel Display

Congratulations on your purchase! As you enjoy your new product, please keep these safety tips in mind:



THE ISSUE

- The home theater entertainment experience is a growing trend and larger flat panel displays are popular purchases. However, flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations.
- Flat panel displays that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests or carts may fall over and cause injury.

THIS MANUFACTURER CARES!

• The consumer electronics industry is committed to making home entertainment enjoyable and safe.

TUNE INTO SAFETY

- One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your flat panel display.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't allow children to climb on or play with furniture and television sets.
- Don't place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger than life" flat panel display. Care should be taken to place or install the display where it cannot be pushed, pulled over, or knocked down.
- Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children.

WALL MOUNTING: IF YOU DECIDE TO WALL MOUNT YOUR FLAT PANEL DISPLAY, ALWAYS:

- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation.
- Make sure that the wall where you are mounting the display is appropriate.
 Some wall mounts are not designed to be mounted to walls with steel studs or old cinder block construction. If you are unsure, contact a professional installer.
- A minimum of two people are required for installation. Flat panel displays can be heavy.





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